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PUBLISHER: David A. Yaw
ASSOCIATE PUBLISHER: Al Menear
MANAGING EDITOR: James Devery
TECHNOLOGY EDITOR: Bill Siuru
ARTWORK & DESIGN: BCD Company
GENERAL MANAGER: Cindie Bonsall
CIRCULATION MANAGER: Bill Zadlo

ADVERTISING:
Al Menear
Toni Saturno

POLICE and SECURITY NEWS
1208 Juniper Street
Quakertown, PA 18951-1520

Phone:
(215) 538-1240
Fax:
(215) 538-1208
E-mail:
info@policeandsecuritynews.com

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New Button Release Baton

The new **Talon Air**, from Armament Systems and Procedures (ASP), incorporates a steel/aluminum design which is found in all of ASP's Airweight batons. This custom combination results in a lightweight, durable and effective impact weapon. The handle and middle of the baton are made with 7075 custom aluminum tubing – the same alloy used in an M4 rifle, and the striking surface is high carbon steel tubing. It weighs approximately 11.2 ounces, nearly one half pound less than its steel counterpart.

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New Stunning Flashlight

TASER® International, Inc. recently introduced the heavy-duty **StrikeLight™ stun flashlight**. A practical tool which can be used for more than self-protection, the **StrikeLight** stun flashlight was designed for convenience and protection in everyday life. The **StrikeLight** does not fire projectiles to cause neuromuscular incapacitation. Instead, it was designed as a less aggressive, more affordable personal protection tool with a very loud, intimidating electric arc for maximum deterrence, and a powerful stun capability to repel threats which get too close. Some of its features include one-hand operation for easy use; a replaceable and rechargeable battery; and five hour continuous use per charge.

Circle 6006 for More Information

New Enhanced Mega Unit

From Guardian Protective Devices, Inc. comes the **MK-46E/60**. It can be quickly refilled with premeasured cylinders and charged on location and has a range up to 40 feet for crowd control, civil disturbances, or use in a correctional facilities where it can reach the second tier. Measuring 19.5", it features a spring-loaded handle with a safety pin and is available with OC combined with a nonflammable carrier; an OC and CS blend; or with custom blends.

Circle 6007 for More Information

Double Rubber Ball 12-Gauge Cartridge

Firing two spherical 40A durometer rubber projectiles, this **cartridge**, from Rio Ammunitions, Inc., was specifically developed for riot control, suspect apprehension and related applications. It allows law enforcement officers to maintain a safe operating distance while being able to project force precisely and controllably.

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New Flash Bang Trainer

The **FBG-1**, from Royal Arms International, Inc., is an impact detonated flash bang device which creates 175 decibels, four psi of overpressure and 500K CP. It was designed to provide realistic training at a low cost per bang.

Known as a blank firing impact grenade, instead of employing a time delay fuse – as is the case with most pyrotechnic training flash bangs – the **FBG-1** is set off by impact. Allowing controlled and directed impact ensures its safe deployment and use.

The **FBG-1** is similar in size and weight to an operational flash bang. It has an overall height of 5.625", a diameter of 1.75" (including the spoon), and an overall weight of 1.742 pounds. The most important feature of the **FBG-1** is its ability to be serviced and reloaded by the user.

Circle 6009 for More Information

New Aerosol Defense Product Addition

Combined Systems has added **Omni-Stream**™ to their line of aerosol defense products. The new additions feature a Bag On Valve (BOV) delivery system and a sleeker look and feel to their crowd management-sized units. The benefit of the BOV system allows the operator to hold the can at any orientation and achieve consistent stream performance. The **Omni-Stream** products will be available in MK-3, MK-4 and MK-9 sizes. The MK-9 will also incorporate a newly designed handgrip with increased safety features and will produce a better ballistic stream.

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Ramesh Nyberg

FOURTH AMENDMENT PROTECTION FOR CELL PHONES

A recent decision restricts an arresting officer's ability to search a cellular telephone found on an arrestee.

Cedric Tyrone Smallwood is not a very bright lad. In fact, he's downright moronic – a two-bit habitual criminal with a chronic affinity for sticking a gun into people's faces. Look up *recidivism* and there's a picture of Cedric.

Despite belonging to America's legion of dangerously dumb armed robbers, Cedric Smallwood might very well end up being an important figure in the future of our justice system. On January 24th, 2008, Cedric donned a ski mask and gloves, armed himself with a pistol, and entered a local grocery store in his neighborhood in a suburb of Jacksonville, Florida. He went over the counter and, holding the clerk at gunpoint, demanded over and over that the clerk give him all the money, including what was in a locked cabinet. He hit it big: The cabinet contained $15,000 in cash and a silver and black .38 caliber revolver. He scooped up the money – which was folded over and secured with rubber bands – and the gun and fled.

When the police arrived, the clerk told the reporting officer that he recognized the robber's voice. He was a regular customer, he told them. He had come in many times and he was very sure this was a guy they called "Dooley." The police also interviewed a witness who saw a man running from the convenience store wearing gloves. This witness turned around to look at him again and noticed that the man had passed a trash can and was no longer wearing gloves. The investigators retrieved a pair of gloves from the trash can and it wasn't long before their pavement pounding yielded dividends – "Dooley" was a guy named Cedric Smallwood. There was more than one DNA profile obtained from the gloves, but Smallwood was one of them and could not be excluded. A judge granted the sheriff's office an arrest warrant.

After getting Cedric's cell phone number from his mom, the police kept looking for him and tried to call him several times. Finally, Cedric answered and agreed to meet Officer Ike Brown at Popeyes® chicken. Within a few minutes of the meeting, Officer Brown had the cuffs on his wanted subject and conducted a routine postarrest search. Brown found Cedric's cell phone and he began looking through it. To his surprise – and, I'm sure, his delight – Brown found five pictures of Cedric and his fiancée, grinning, holding up a black and silver revolver, and posing triumphantly with wads of cash which were folded over and secured with rubber bands. One of the pictures, taken five days after the robbery, showed both the lovebirds holding up their hands with engagement rings on their fingers. For some reason, Brown did not disclose the existence of the photos to the prosecutor until the eve of trial, but that detail is barely relevant.

Smallwood's defense attorney filed a motion to suppress the photos, citing that the search of the phone was far more invasive than "search incident to arrest" covers. The trial judge disagreed and the photos went in. Smallwood was convicted of armed robbery and possession of a firearm by a convicted felon and was sentenced to a total of 65 years, with a minimum mandatory of 15 years for the use of the firearm.

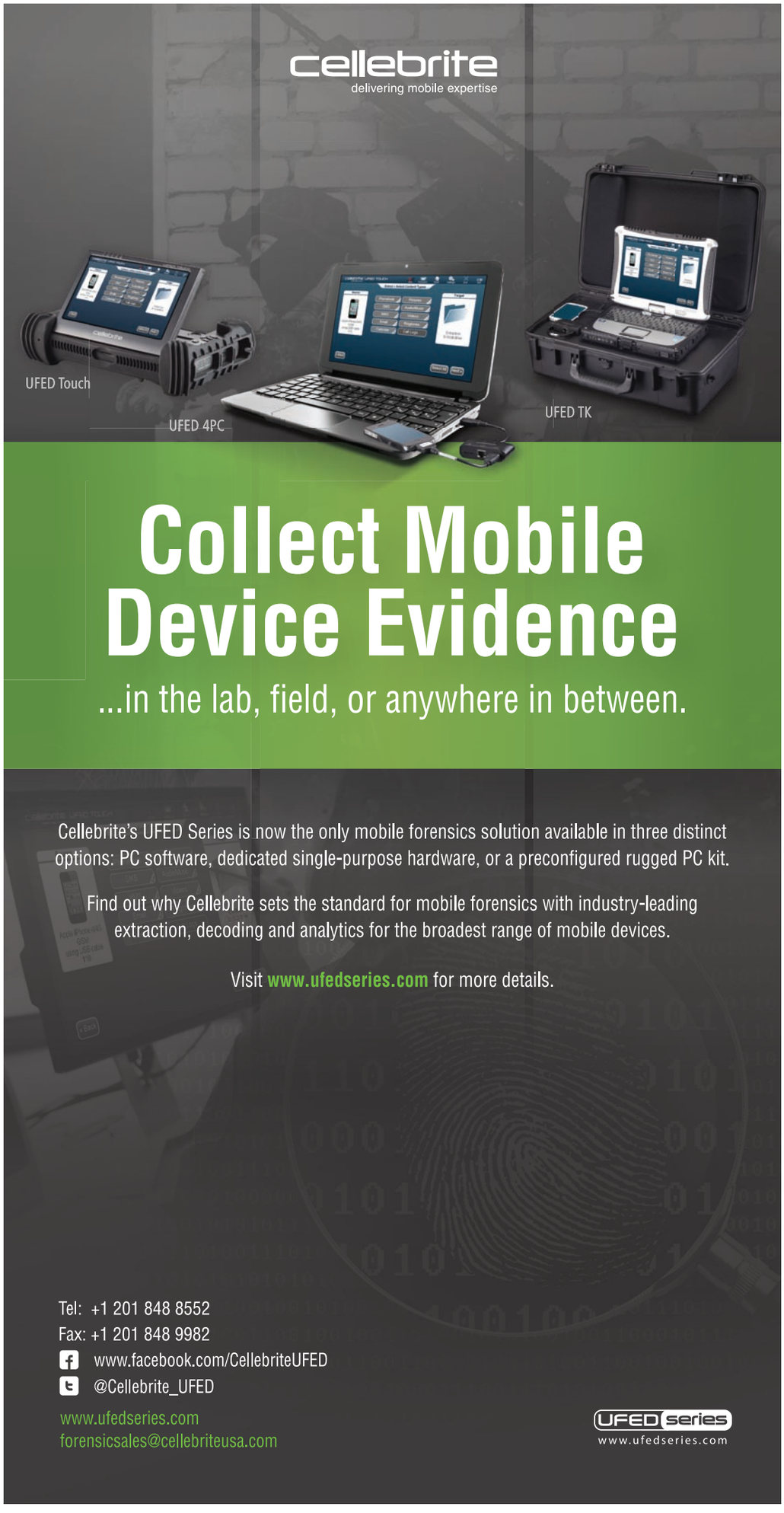
An appeal up to the District Court of Appeal met the same fate, but that court felt that the question before them was one at which the Florida Supreme Court should look. They certified the question as one of "great public importance," asking the seven justices in Tallahassee to consider, "Does the holding in *United States vs. Robinson* allow a police officer to search through photographs contained within a cell phone which is on an arrestee's person at the time of a valid arrest, notwithstanding that there is no reasonable belief that the cell phone contains evidence of any crime?"

I was oblivious to all of this prior to February of 2012. It was then that I got an E-mail about something called the Justice Teaching Institute (JTI), an amazing opportunity to go to Tallahassee and attend workshops with the actual Florida

Circle 6014 for More Information

Supreme Court Justices. It was open to only 25 teachers in the state and I was lucky enough to be chosen. When we got up there, we had three days of seminars and workshops, all about the Fourth Amendment, and got some terrific ideas to bring back to the classroom and teach Constitutional principles to our students. We were given a case to review and then we were put into groups and assigned to be either defense or state prosecutors. The case was called *Smallwood vs. Florida*. Having never heard of it, we didn't even know if it was even a real case. If it was a mock case, someone put a ton of detailed work into it: The binders we got were bulging with motions, court records, police reports, and case law to guide us. We argued the mock hearing in the courtroom where real hearings are held, with seven of us playing the parts of the justices. It was fun and it was a great learning experience. On the last day of the workshop, we were ushered into the courtroom and, just before we filed in, our coordinators told us, "You're now going to watch the oral arguments in the real *Smallwood vs. Florida* case." I had a front row seat for that hearing. That was a great way to wind up a seminar, along with the snazzy banquet we had that night with the justices sitting at our tables.

Just this past summer, the Florida Supreme Court published their opinion, voting 5-2 in favor of Smallwood. The argument the defense made – that cell phones are different than the "containers" referred to in the *Robinson* decision – worked. *Robinson* says we can search the person and anything on the person. The majority opinion in *Smallwood* agreed with the defense that, when *Robinson* was decided, there were no cell phones and the idea that we could walk around with filing cabinets full of data and personal information in our pocket was never considered. During the JTI workshop, I was assigned as the defense, to argue for Smallwood. It was a challenge. The cop in me screamed, "You're the a-hole who got arrested, so whatever we find on you is fair game." The amateur student of the Constitution in me, however, believes that cell phones are *very different*, but for reasons that Smallwood's defense counsel never mentioned. Yes, it's a container of sorts, like your wallet. On a cell phone, though, you have text messages and E-mails. Those are *ongoing conversations*. In fact, Officer Brown could have conceivably intercepted a text just as it was coming in. Is an ongoing text conversation the same as a phone conversation? I don't know – the question was never asked. But, if it *is*, then you need a *wiretap* to listen in (or, in this case, read). Anyone who has ever applied for a wiretap can tell you that a wiretap is like a search warrant on steroids. It should be; it requires a far more invasive act. And, if you accept that premise, then, at the least, you would need a search warrant to look through the digital contents of a cell phone, wouldn't you? I can hear you all now: *Nyberg, you've gone soft and liberal in your retirement.*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Digital communication represents the new frontier in search and seizure arguments. I don't see how the state of Florida does *not* appeal this up to the Supreme Court of the United States. If the Supremes hear it, then their ensuing decision will have vast ramifications about searches of electronic devices, from phones to laptops, iPad®s, maybe even SD cards and flash drives. Justice Canady, writing his dissenting opinion in *Smallwood*, said that the majority decision has the potential to "make much mischief with the Fourth Amendment."

You're right, Your Honor, but technology has already made much mischief with our lives and it could be a long time – and more *Smallwood* cases – before we sort it all out, if we ever do. P&SN

Editor's note: On the other hand, in a significant victory for police, a federal appeals court recently ruled that law enforcement authorities could obtain historical location data directly from telecommunications carriers without a search warrant. Ruling two to one, the court said, "a warrantless search was 'not per se unconstitutional' because location data was 'clearly a business record' and, therefore, not protected by the Fourth Amendment." The federal appeals court acknowledged the government's argument that consumers knowingly give up their location information to the telecommunications carrier every time they make a call or send a text message on their cell phones.

About the Author: Ramesh Nyberg retired from law enforcement in November 2006. He spent 27 years in police work in South Florida, 22 of those years in homicide as an investigator. He has taught homicide investigations and interview/interrogations at the local police academy. He now teaches criminal justice classes at a high school in the Miami area. His students frequently read the copies of Police and Security News *he brings to the classroom. Mr. Nyberg enjoys hearing from readers and he may be contacted at ramesh.nyberg@gmail.com.*

New Composite Fiber Could Provide Ballistic Protection

Innegra™ Technologies' new composite material may be used to create new ballistics and personal protection products. According to the company, Innegra H was designed to be lighter weight, more impact-resistant and more cost-effective than other materials on the market.

The product has been beta tested and was officially launched in October. Already, Innegra H has won an innovation award from JEC Americas.

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Michael Carpenter

MATHEMATICS AND SUPERVISION

I'm not ashamed to say that mathematics and I don't get along too well. Equations, formulas, exponents, square roots – I'm sure they all have a purpose, but....

So, why am I writing an article on mathematics and supervision?

Because, if you can learn to apply a simple ratio to your job as a supervisor, it can make your life a lot easier, reduce time and effort in dealing with your personnel and give you more time to focus on the macro issues of your job rather than the micro issues.

The ratio I want you to keep in mind is called the "80-20 Rule." This was originally written about by an economist named Vilfredo Pareto who found that, in the early 1900s, about 80 percent of the wealth in Italy was controlled by about 20 percent of the population. Since then that same ratio has been used – although not entirely accurate – to show disparity and unequal distribution in other areas. For example, it is not accurate, but it does make a point to say that 20 percent of the criminals commit 80 percent of the crimes. In business, the 80-20 rule is used to help managers identify problems and determine which operating factors are most important and should receive the most attention based on an efficient use of resources.

Kid in the Candy Aisle

Okay, let's talk about how this applies to your job as a supervisor. Let's start with what I call the "Mother in the Supermarket Checkout Line Scenario." Mom is checking out groceries and her little four-year-old child sees candy. The child wants candy and says, "Mom, can I get some candy?" Mom says, "No." The four-year-old doesn't like that answer. The child gets louder, "Mom – I want some candy!" The mother tries to explain logical reasons why the child can't have the candy. The child doesn't understand logic – they only understand their own wants. The child knows he (or she) won't get too much further with that line of attack, so he (or she) may resort to name-calling, crying, throwing a temper tantrum or other means of trying to embarrass the mother in front of other people. (We have all seen this happen!) Sometimes, as a last resort, the child may try to go around the authority of the mother by asking dad or grandma (or any other adult behind them in line at the checkout) to override the decision of the mother. (In supervisory terms, we call that an "end run.") So, the child tries four different options to get their own way: asking; demanding; embarrassing the mother; and trying to get someone else to override the decision of the mother.

Some inexperienced mothers give in to the demands of their child because it is easier and solves an immediate problem. However, some mothers know that, if they give in to the child, that may solve a short-term problem, but it will create more serious long-term problems. They know that the long-term value of not giving in to the child's demands far outweigh the immediate and easier gratification option. Once the mother gives in to the child's irrational and selfish demands, the child learns how to manipulate the mother and will continue to do so in the future.

Some inexperienced mothers may give in to the child's demands in hopes that "just this once" will be the one and only time. Well, it isn't. As parents, we all know this! If the parent gives in, they are training the child that his (or her) own selfish demands are more important and that the decision of the mother can be overcome by irrational, immature and outrageous behavior. However, if the parent stands firm (not an easy decision to make in the middle of a crowded supermarket!), the child can be trained to respect the decision of the mother and that the child cannot get everything that he (or she) wants by whining, crying and irrational behavior.

Twenty Percenters

Okay, what about mathematics? Well, although not completely accurate, if I were to tell you that 20 percent of your employees create 80 percent of your personnel problems and that 80 percent of your supervisory time is spent trying to deal with these 20 percent, would you think about it for a minute and then say, "Yes, that's about right!"

Eighty percent of the children who go through the supermarket checkout do not create problems; they respect the authority and position of their mother and they have learned (maybe through previous attempts at asking for candy) that they can't always get what they want. Imagine that – what a great lesson to teach a child! However, 20 percent of the children (again, not completely accurate, but I hope you get my point) do create problems. Some mothers will spend 80 percent of their time dealing with that 20 percent. Too much time is spent dealing with negative behavior – not enough time is spent focusing on the positive behavior of the 80 percent of the children.

I am convinced that some supervisors spend 80 percent of their time trying to deal with 20 percent of their employees. I also believe that these same supervisors have trained these employees that irrational behavior, acting out, name-calling and focusing on their own often selfish issues is acceptable rather than focusing on the macro issues of the organization.

Think of some of the "problem" employees you have on your shift. When you make a decision that they don't "like," do they accept your authority and your decision or do they react like the child in the supermarket: ask; demand; bad-mouth you to everyone who will listen (of course, behind your back) and let everyone else know how "unfair" that decision is and what a terrible boss you are; and go around you (without telling you, of course) and talk to YOUR boss to get him to override your decision (do an "end run" to someone further up the chain of command).

Long-term Problems

What some inexperienced supervisors fail to understand is the long-term results of their enabling. The 20 percent of the problem employees are rewarded and will continue their successful behavior (because they keep getting what they

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want). Of course, this creates long-term problems. For example, what about the "silent majority" of employees? What about the 80 percent of the "nose to the grindstone; plug along and do a good day's work; do what is best for the organization" type of employees? They see how the "whiners" are rewarded. They see how selfish behavior is focused on. They eventually will feel disenfranchised. The ineffective supervisor does not have time to focus on their positive behavior because they are spending way too much time focusing on the 20 percent. Eventually, this can affect morale, productivity and long-term success of the organization. Inexperienced or poor supervisors spend too much time (80 percent) focusing on the needs of the few (20 percent), while ignoring the positive behavior of the 80 percent. No one wins when this happens.

It is a difficult decision for the parent at the checkout counter to say "no" to their child. It becomes more difficult when the child acts out. We all know that there is an easy short-tem solution or a more difficult long-term solution. The parent has a responsibility to train their child and the parent either accepts that responsibility or doesn't.

Bottom Line

One of your jobs as a supervisor is to train your employees. You can train them to be in the 20 percent or you can train them to be in the 80 percent. If you give in to selfish "wants," if you reward the whining and if you accept less than professional behavior from these employees, you are training them to act out when they don't get their way. If you quickly, firmly and decisively deal with the short-term problem, you will train them that the macro needs of the organization are more important than their micro needs. You decide!

About the Author: Mike Carpenter has been on the police side of criminal justice for more than 25 years. He started out as a city cop and then went to a state police agency (trooper, detective and patrol sergeant). After that, he worked for the New York State Police Division of Criminal Justice as a police training specialist.

Currently, he teaches criminal justice courses at a college in upstate New York. He has two master's degrees; has been a certified police trainer for more than 20 years; has written numerous articles; and operates a police management consulting business (www.policemanagement.com).

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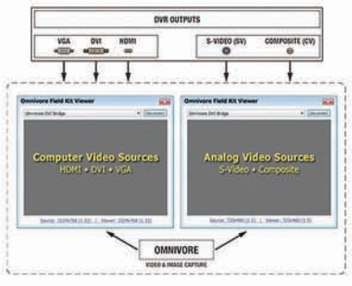

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Product Highlight

On and Off Duty Holsters

DESANTIS GUNHIDE®

The **Dual Carry II** is now available for the Smith & Wesson® M&P Shield™ 9/40 and features the tuckable 360 degree C-clip for unlimited positing adjustment in the IWB mode. It is made of soft nonmolded leather with a thumb break and an integral belt loop for OWB carry. An optional J-clip is also available.

Circle 6020 for More Information

S.O. TECH, INC.

The **TASER® holsters** from S.O. Tech now fit the X2™ and X26P™ TASERs. MOLLE and belt/thigh versions are available in the patented design; the leg rigs kits come with a quick disconnect belt adapter and a TASER reload pouch. The X2 model comes with a proprietary safety plate.

Circle 6021 for More Information

DUTYSMITH

The **SpeedSet™ Duty Belt System** is the solution to back and leg pain caused by typical duty belts. The belt, made of flexible rubber, combines with an innovative metal rail system which flexes with the officer's body and eliminates pinching and bruising. The SecureLoc buckle allows for quick on/off and easy size adjustment. The holders lock securely to the belt with the patented rail attachment clip, eliminating the hot spots caused by traditional straps. Once locked on, the holders ratchet at any angle and are available in a number of finishes.

Circle 6022 for More Information

DESANTIS GUNHIDE®

The **Mini Scabbard®, Style #019**, available for the Ruger LCR® with a LaserMax CenterFire™, has been reduced to the barest of essentials, yet offers a secure grip on the handgun thanks to exact molding and an adjustable tension device. It will accommodate belts up to 1 1/2" wide.

Circle 6023 for More Information

N8² TACTICAL

The **Professional Series Holster** is a true positive retention IWB and is available for a wide variety of handguns made by a number of manufacturers. These comfortable, concealed carry **holsters** are handmade in the USA and include a lifetime warranty. A significant discount is available on departmental orders.

Circle 6024 for More Information

BIANCHI®

Bianchi has added fits for the Smith & Wesson® M&P® Shield™ in two of its popular concealment models which offer both OWB and IWB options for this popular handgun. The **Model 75 Venom™** leather belt slide model features a contour molded front and flat back for a slim profile on the belt. The **Allusion™ Series Model 135 Suppression™** is a tuckable IWB holster offering excellent comfort and concealability.

Both models are made of premium, full-grain, vegetable tanned leather, with precise molding for fit and function.

Circle 6025 for More Information

DESANTIS GUNHIDE®

The **Sky Band™, Style M30**, is a bellyband concealed carry holster designed for law enforcement. The platform is built utilizing 4 3/4" wide surgical elastic with four rows of hook and loop fastener areas. It has pockets for three magazines, handcuffs, an expandable baton, a large semiauto, and a knife or flashlight. The holster section has removable thumb break straps. The **Sky Band** is available is both left- and right-hand models in sizes SM, MD, LG and XL.

Circle 6026 for More Information

PITBULL TACTICAL

The **Bloodline** and the **Bloodline Nocturnal** (Tactical Light Series) are the smallest and lightest multipurpose holsters available. Both are Molle adaptable and have over 400 configurations for a single gun. With the vast number of adjustments for height and cant, for both IWB and OWB, and using hardware provided with every holster, you are sure to find the perfect setup for your carry style.

Circle 6027 for More Information

DESANTIS GUNHIDE®

The **L-GAT Slide, Style #118**, is made from premium black or tan saddle leather and features double stitched seams and precision detailed molding. It is a neutral cant concealment OWB holster which works equally well on the strong side or cross draw. The **L-GAT** is available for both revolvers and semiautos in right- and left-hand models.

Circle 6028 for More Information

NEWS

Urban Institute Looks at Collecting DNA at Arrest

Collecting DNA at Arrest: Policies, Practices, and Implications is an Urban Institute (UI) publication by Julie Samuels, Elizabeth Davies and Dwight Pope.

The National Institute of Justice provided funding for the UI to conduct a study which examined (1) key provisions in arrestee DNA laws; (2) how those laws are being implemented across the country; and (3) the effects of arrestee DNA collection on the growth of databases, the number of hits generated through matches to arrestee profiles, and other measures of effectiveness.

According to the executive summary, the study found:

- Provisions governing arrestee DNA collection and analysis vary considerably by state;
- Most arrestee DNA laws place the responsibility for expungement on the arrestee, but do not specify notification procedures, processing times, or use of profiles;
- Preparing for arrestee DNA laws can be time and resource intensive;
- In addition to analyzing more samples, state laboratories take on more administrative work;
- Arrestee DNA laws increased the number of samples received by laboratories and profiles in NDIS;
- Arrestee profiles lead to more hits, but the extent of this increase is unclear; and
- Safeguards and compliance monitoring represent important aspects of implementation.

For more information, see **http://tinyurl.com/o9wk7sw**.

This summer, the US Supreme Court, based on its review of *Maryland v. King*, upheld the warrantless practice of taking and analyzing a cheek swab of a suspect's DNA when the person is arrested based upon probable cause for a serious offense. For more information, visit LexisNexis® Legal Newsroom at **http://tinyurl.com/mr6rl6r**.

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Circle 6029 for More Information

Walt Rauch

THE GLOCK® 30S (SLIM) IN .45ACP

A trimmer and more concealable version of the Model 30SF

The .45ACP chambered GLOCK Model 30S (Slim) is a variation of the Model 30SF (Short Frame). The only external difference between the two is the thinner M36 slide replacing the 30SF slide (more on this later).

As a frame of reference, the ten round .45ACP M30 was introduced in 1997 as the compact version of the 13 round full-sized M21. It has evolved over time to be the Model 30SF, now with the new variant – the 30S.

The M30 was, and still is, a squat, bulky, compact handgun whose virtues are first and foremost that it's a GLOCK, with all the attendant plusses and minuses of the GLOCK handgun. The SF designation indicates that its grip has been reduced to create a shorter trigger reach to help those with short fingers or small hands grip the pistol and manipulate its trigger better.

The front strap has large and molded checkering, as well as finger grooves.

The how and why of the M30S being created begins with the Special Investigations Section (SIS) of the Los Angeles Police Department (LAPD). The SIS wanted a more concealable version of the Model 30SF due to the particular nature of their assignment within the LAPD. They are charged with arresting and aiding in the conviction of violent, repeat offender crime gangs. The SIS most often arrests these offenders during the commission of the actual crime, extensively using well armed plainclothes officers. These long-term recidivists are also well (and, often, heavily) armed, and they use these weapons during the offense and in resistance to any arrest.

The backstrap has molded checkering. The ambidextrous magazine catch is unobtrusive. The extended magazine floor plate aids in getting a good grip.

I was led to believe that the purpose of in progress arrests is to eliminate, or at least minimize, any question as to guilt or innocence. These tactics were depicted in the movie *Heat*, starring Al Pacino and Robert De Niro, in which a long-running "shoot-out" took place where great emphasis was placed on the "eliminate" part!

Theatrical excess aside, the SIS officers do need to be well armed, right along with not being noticed by criminals who are no strangers to surveillance and spotting lawmen. A robust, concealable, large caliber handgun makes sense. The M30SF is good and now, with the M36 slide, the M30S is

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Circle 6032 for More Information

The GLOCK® M30S, disassembled

ever so much more concealable.

The M30S was originally an "off catalog" item, but this didn't last very long, as others (including law enforcement agencies) got wind of it and wanted some for themselves, and so, too, did non-sworn citizens. GLOCK, Inc., no slouch in marketing or engineering, quickly cataloged the 30S.

As to what all was changed to make the 30S, an industry source told me there were about five parts changed, but would not give me specifics.

Lacking an M30SF, and only having a personal M30 which I bought in 1997, I could not make any comparisons. I did note that the 30S uses the GEN 4 dual captive recoil spring assembly. The frame shortening of the SF can also be seen easily by comparing the sizes of the opening to the rear of their magazine wells. Using a cloth tape measure, I measured the grips of the M30S and an M30 from slightly below their trigger guard on a direct line around their backstraps with these results: The M30 measured 6.125" and the M30S measured 6.00".

I also measured the M30 and M30S slides' height, width and weight with these results: The height of the M30 was 2.38" and the M30S was 2.17"; the width of the M30 was 1.04" and the M30S was 1.00". The weights of the assembled slides were 19.5 ounces for the M30 and 16 ounces for the M30S. Their frame weights were identical at 20 ounces. I also switched their slides and was able to dry fire both pistols. I passed on live fire, not wanting to damage the guns (or myself!). Finally, please note: GLOCK does not sell slides separately.

Like the M30SF, the M30S has a Picatinny dimensioned rail on its dustcover on which I was able to install an ITI M2X light. Its barrel length is 3.78" and, in addition to the previously mentioned GEN 4 recoil spring, an ambidextrous magazine catch is also present. Instructions on how to reverse the catch are in the owner's manual. Three magazines, a magazine loader and a nylon brush and polymer cleaning rod are also included in the package.

The 30S magazine holds ten rounds, with cartridge witness windows numbered "4" to "10" on its rear face. It has a smooth-faced and removable base plate which is enlarged to extend below the grip to serve as a grip extension. It allowed me to take a good three finger grip on the pistol. It's important to note that a 30S magazine will not lock into frames which lack the 30S catch, because the catch has a metal portion which locks into a matching relief area where the magazine's metal liner is exposed. Earlier magazines lack the cut. The reverse, though, is possible and nonambidextrous magazines can be used in the 30S.

The S frame continues to have finger grooves on the front strap which, along with the backstrap, has the most current molded checkering. The sides of the grips are closely pebbled and two shallow depressions are on either side at the top of the frame and are thought of as finger or thumb rests. There are six grasping grooves at the slide's rear.

Standard GLOCK white dot front and white outline rear sights are used. (GLOCK has Trijicon®

Circle 6033 for More Information

Point Blank Enterprises Unveils Revolutionary Alpha Elite™ Series Ballistic System at IACP 2013

Point Blank Enterprises recently announced the introduction of the first of its kind Alpha Elite Series ballistic system.

The Alpha Elite Series was created when Point Blank engineers began searching for a ballistic material which would meet the rigorous demands of U.S. Special Operations Forces. This next generation ballistic system is dramatically different from other products as it's the first body armor ever to be designed around the revolutionary Dyneema® Force Multiplier Technology by DSM.

"During independent testing, the Alpha Elite AXIIIA ballistic package exceeded all performance requirements, including tests for maximum velocity approaching or exceeding 2,000 fps," said Michael Foreman, Vice President of Government and International Sales. "Test lab personnel stated that they had never seen this level of performance in a package of this weight and thinness during any other testing of soft armor ballistic solutions."

Dyneema® Force Multiplier Technology ballistic material was developed to meet and exceed global standards for law enforcement, military and U.S. Special Operations Forces applications. It is designed to defeat high velocity handgun rounds and fragmentation with minimal backface deformation. Additionally, it offers truly superior multihit protection.

A product of DSM Dyneema's radical innovation program, the patented Dyneema Force Multiplier Technology has been in development for more than three years. Point Blank collaborated closely with DSM to become the first trademark licensee in law enforcement personal protection for this new technology.

"DSM Dyneema is extremely pleased to have Point Blank as our first licensee for Dyneema Force Multiplier Technology," said Shitij Chabba, Global Business Director for Life Protection, DSM Dyneema. "The material's light weight and flexibility result in comfort and mobility which are as revolutionary as the ballistic performance. This technology truly ushers in a new age of ballistic performance with no compromises."

Thanks to this technology, NIJ Level IIIA performance is now available with comfort levels more typical of Level II body armor. Compared to Point Blank's previous lightest Level IIIA vest, the Alpha Elite Series is a full 12 percent lighter.

"The Alpha Elite Series doesn't just surpass previous levels of performance and comfort, it creates an entirely new standard," said Michael Haynes, Director of Marketing and Product Development, Point Blank Enterprises. "Our engineers determined that the very best ballistic material for our armed forces was also the very best material for law enforcement officers in the U.S. and around the world."

Key attributes of Point Blank's Alpha Elite Series include extremely high effectiveness against fragmentation; multihit performance exceeding FBI protocol; special threat performance exceeding FBI protocol; extraordinarily efficient absorption of impact energy; availability in both male and female versions, as well as concealable and tactical configurations; and NIJ Standard 0101.06 compliance.

For more information on Point Blank Enterprises, the Alpha Elite Series and Dyneema Force Multiplier Technology, please visit the Web at:

Point Blank Enterprises:
www.pointblankenterprises.com

Alpha Elite Series: **www.EliteProven.com**

DSM Dyneema: **www.dyneema.com**

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Circle 6035 for More Information

The extractor moves outward when a shell is chambered to serve as a loaded chamber indicator.

CHRONOGRAPH RESULTS

The following results were obtained using a Master Crony® chronograph at 300 feet above sea level with an ambient temperature of 61 degrees. The pistol used was a GLOCK® M30S in caliber .45ACP with a barrel length of 3.78" with five shot averages for all data.

Ammunition (.45ACP)	Velocity (fps)	Standard Deviation
Black Hills 200-gr. JHP (Remanufactured)	871	19
Cor®Bon 230-gr. Performance Match JRN	762	27
Federal Personal Defense Low-Recoil 165-gr. Hydra-Shok®	1031	18

night sights as an optional purchase.) To adjust for windage, the rear sight can be moved in its transverse notch in the slide. The G30S trigger arrives with the standard 5.5 pound connector installed and, as usual, using a Chatillon scale, the weight was higher at six pounds, seven ounces.

I was fortunate to have the aid of my friend Ted Murphy to help with the evaluation and shooting at the range. I brought my original M30 for comparison. We shot 230-grain JRN Cor®Bon Performance Match and 200-grain JHP Black Hills (remanufactured) ammo, with Ted supplying some Federal Low-Velocity 165-grain Hydra-Shok® ammo. Both of us found a not inconsequential difference in felt recoil between the two pistols. My notes show my comment at the time was "the 30S...is unpleasant to shoot by comparison to the Model 30." Ted has commented that shooting the M30S felt as if it were a pocket gun, while shooting the M30 felt quite similar to shooting his full-sized GLOCK 21SF. He explained that "pocket pistol" was his shorthand for the felt recoil he experienced with numerous polymer and steel subcompact 9x19mm pistols.

During this outing, Ted once again shot the best groups of five shots each at 15 yards – 2.00", 1.75" and 1.50", respectively. I started off poorly and never caught up, with my best just 3.25".

We agreed the SF grip on the 30S feels much better than the older M30 and should offer better concealment. On this, lacking a proper holster, I did a quick and dirty evaluation by wearing each one around the house with the gun tucked into my belt. The M30S felt better and more comfortable. I draped a denim shirt over the setup and didn't see much, if any, difference in concealment but, given

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GLOCK® MODEL 30S Technical Specifications

Caliber: .45ACP
Length (slide): 6.77"
Length (overall): 8.11"
Height with magazine: 4.80"
Width: 1.00"
Length between sights: 5.91"
Barrel length: 3.78"
Barrel profile: Right-hand twist, octagonal
Length of twist: 15.75"

Magazine capacity: Ten rounds
Weight w/o magazine: 20.00 ounces
Weight of magazine (empty): 2.47 ounces
Trigger pull: 5.5 pounds (GLOCK specifications)
Trigger distance: 2.85"
Trigger travel: 0.49"
Sights: Standard GLOCK sights; night sights optional
Safeties: Three

Results from 15 yard supported firing, thanks to Ted Murphy's efforts

the nature of law enforcement surveillance dress and body locations, any reduction in size is a plus.

For more information, check out the Web site at **www.glock.com**.

Circle 6037 for More Information

About the Author: Upon receiving his BS degree from Carnegie Tech and completing service as a Special Agent in U.S. Army Intelligence, Walt Rauch was a Special Agent with the U.S. Secret Service and an Investigator with the Warrant Unit, First Judicial District, PA.

Rauch is also a writer and lecturer in the firearms field. He is published regularly in national and international publications.

Circle 6038 for More Information

Above and Beyond...

HONORING THOSE WHO TAKE RISKS AND SAVE LIVES

"Above and Beyond..." salutes Officer Zac McDowell of the Urbandale, IA, Police Department

ABOVE AND BEYOND...
Artwork by Don Lomax
MARCH 10, 2013
URBANDALE, IOWA
10:30 P.M.
URBANDALE
POLICE
A 911 DISPATCHER ALERTED OFFICER ZAC MCDOWELL OF A VEHICLE ON FIRE AFTER CRASHING INTO AN AIR CONDITIONER UNIT WHILE DOING DOUGHNUTS IN THE URBANDALE BAPTIST CHURCH PARKING LOT!
WHEN HE ARRIVED AT THE SCENE, THE VEHICLE WAS FULLY INVOLVED!
MCDOWELL WAS NOT ALONE IN THE SQUAD CAR THAT EVENING. NICK SCHROEDER, AN IOWA STATE UNIVERSITY STUDENT WAS ON A RIDE-ALONG WITH THE OFFICER. BOTH INDIVIDUALS APPROACHED THE BURNING VEHICLE, WITH MCDOWELL IN THE LEAD!
DUE TO THE INTENSE SMOKE, MCDOWELL COULD NOT ASCERTAIN WHETHER THE VEHICLE WAS OCCUPIED, OR NOT. HE TOOK HIS NIGHTSTICK AND BROKE OUT THE PASSENGER SIDE WINDOW!
MCDOWELL STILL COULD NOT SEE INSIDE! THEN, HE SPOTTED THE HAND OF 18-YEAR-OLD IAN WASESKUK, THE DRIVER! BRAVING THE CHOKING SMOKE, MCDOWELL GRABBED THE UNFORTUNATE TEENAGER'S HAND AND PULLED!
WHILE SCHROEDER JUMPED IN TO PULL THE UNCONSCIOUS YOUNGSTER TO A SAFE DISTANCE, MCDOWELL CHECKED THE BACKSEAT TO MAKE SURE THERE WAS NO ONE ELSE IN THE CAR! WASESKUK WAS TAKEN TO MERCY MEDICAL CENTER WHERE HE WAS IN SERIOUS, BUT STABLE, CONDITION.
OFFICER ZAC MCDOWELL, AN IOWA NATIONAL GUARD VETERAN WITH TOURS IN KOSOVO AND IRAQ, AND RECOGNIZED AS SOLDIER OF THE YEAR FOR IOWA IN 2006, RECEIVED A CONGRESSIONAL TRIBUTE FOR HIS LIFESAVING ACTIONS IN THIS INSTANCE.
THE END

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Submissions should include a brief description of the incident, photos of the officer(s), as well as a letter or E-mail from the ranking officer of the department/agency certifying the nomination.

Please direct all submissions and/or questions to:
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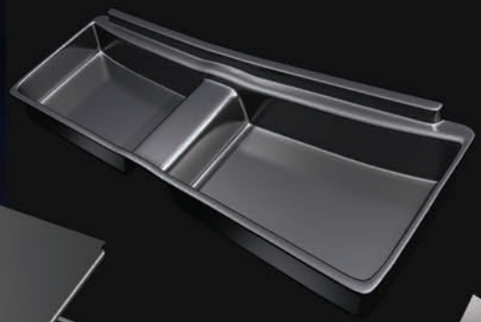

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The Wheels of Justice

Photos by Raymond Holt, Michigan State Police

Sgt. James G. Post

TRANSPORTATION 2014

P&SN presents its 16th annual report on the latest technical advances in police vehicles, components and accessories.

Welcome to *Police and Security News*' annual "Transportation" issue wherein we profile all that's new in vehicles and equipment for the coming year to give you a head start on preparing your next budget. First, we'll cover vehicles – both those on four wheels and those on two wheels – followed by an equipment review.

Police Vehicles

Last issue, we covered all of the latest news from the "Big Three" which we had at the time as they rolled out their 2014 models. We won't repeat all the information here, other than breaking news, a few highlights and updates, so we can get right to the recent Michigan State Police (MSP) Tests.

2014 MSP Test Results

Good weather greeted the 150 attendees at the MSP testing of 2014 police pursuit vehicles and motorcycles. We reported that 13 vehicles and nine motorcycles would be tested, but, by day one, September 21, two more vehicles had been added, but the motorcycle competitors were down by two. Two late entries by Ford accounted for the increase and one Victory model was dropped prior to the motorcycle tests. Yamaha was a no-show altogether.

The following sedans were evaluated this year: a Chevrolet Caprice RWD 3.6L V-6; a 6.0L V-8; and a Chevrolet Impala FWD 3.6L V-6. There were a total of five Dodge Chargers entered – a current production RWD 3.6L V-6 and a 5.7L V-8 and three 2014.5 models – two RWDs, a V-6 and a V-8, and an AWD HEMI®. Ford brought three PI sedans – two FWD versions, one with a 3.5L V-6 and one with a 3.7L V-6. Ford's third sedan was a turbocharged AWD version. Only two SUV class units were presented for competition – the Chevrolet 5.3L V-8 Tahoe and a Ford PI Utility AWD with a 3.7L V-6. As for the motorcycles, tied with two entries each were BMW (R1200 RTP and F800 GTP), Harley-Davidson (FLHP and FLHTP) and Moto Guzzi (1400 Touring and 1300), while Victory brought their Commander I.

Pedal to the Metal

The first question inquiring minds always want to know is which police car was the fastest. Most of you realize by now that top speed is no longer simply a combination of horsepower and balls like the good old days. It's now whatever the vehicle's computer's preset limits are and we all know (or should know) that those limits can be tweaked upwards by any 17-year-old with a laptop and a Diablo programmer – not that you would consider

Once more, the Chevy Caprice reigns as the fastest cop car at 155 mph.

Chevy's FWD Impala, with its 3.6L V-6 producing 302 hp, delivered an amazing top speed of 149 mph.

The 2014.5 Dodge Charger offers the best (shortest) 60-0 mph stopping distance.

doing that to your cruisers. Anyway, for the record, here are the numbers.

Once again, the Australian built Chevy Caprice was the fastest at 155 mph. Second was the higher geared (2.65) HEMI Charger at 152 mph. The six-cylinder entries from Chevy and Dodge were a tad slower and the slowest vehicles of all were the Ford Interceptor SUVs, computer limited to 131 mph. The fastest SUV was the Tahoe at 139 mph, but the surprise of the day had to be the FWD Impala with the new 3.6L V-6 which hit a scorching 149 mph and tied with a Ford Interceptor Sedan which was both AWD and turbocharged.

I guess the most significant findings for me are that there was only 24 mph separating the fastest and slowest squads and that all of the top speeds were over 130 mph! And, if those speeds make you pause, wait until we get to the motorcycle results!

The 0-60 and 0-100 mph time trials are watched closely by the various state patrols, as these represent the time it takes to be on the back bumper of a freeway speeder from a stop. This year's times were just as amazing as the speed trials, resulting in times which would have thrilled any quarter miler a couple of decades ago.

The two AWD Ford PIs with EcoBoost® (turbochargers) were the champs here, with both the 2014 and 2014.5 models having the best 0-60 and 0-100 times of the bunch, with 0-60 times of 5.66 and 5.71 seconds and 0-100 in 13.50 and 13.72 seconds, beating both the Caprice and Charger times.

But, Can You Stop It?

Some of my favorite police cars back in the day were Chevys with 327s and Mopars with 360s. Man, they were screamers, but, to stop them, it took both feet on the left pedal and all the downward strength you could muster, but still you'd slide a half block past the location of your call, further agitating the citizen who called. Fortunately, modern technology in the form of ABS, disc brakes

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Summary of Vehicle Acceleration and Top Speed Testing

	0-20 mph (sec)	0-30 mph (sec)	0-40 mph (sec)	0-50 mph (sec)	0-60 mph (sec)	0-70 mph (sec)	0-80 mph (sec)	0-90 mph (sec)	0-100 mph (sec)	Top Speed (mph)
Chevrolet Caprice 3.6L	1.78	2.86	3.99	5.75	7.45	9.26	12.0	15.07	18.30	148
Chevrolet Caprice 6.0L	1.57	2.45	3.50	4.71	6.01	7.75	9.70	11.80	14.35	155
Chevrolet Impala 3.6L	1.98	3.14	4.33	5.89	7.67	9.61	12.53	15.78	19.40	149
Chevrolet Tahoe 5.3L	2.00	3.18	4.59	6.33	8.22	10.86	13.93	17.38	21.95	139
2014.5 Dodge Charger 2.65 3.6L	1.93	3.37	4.80	6.26	8.32	10.72	13.30	16.10	21.29	139
Dodge Charger 2.65 5.7L	1.58	2.52	3.48	4.68	6.13	7.60	9.42	11.95	14.56	152
Dodge Charger 3.07 3.6L	1.85	3.11	4.36	5.88	7.85	9.92	12.40	16.05	19.95	141
2014.5 Dodge Charger 2.65 5.7L	1.57	2.53	3.45	4.66	6.12	7.61	9.39	11.98	14.57	150
2014.5 Dodge Charger AWD 3.06 5.7L	1.54	2.42	3.39	4.71	6.04	7.74	9.92	12.20	14.70	148
Ford PI Sedan FWD 3.5L	2.03	3.14	4.48	6.02	8.00	10.47	13.08	16.02	20.38	131
Ford PI Sedan AWD 3.7L	1.81	2.80	4.13	5.55	7.48	9.63	12.05	14.92	18.64	132
Ford PI Sedan AWD EcoBoost 3.5L	1.48	2.22	3.16	4.22	5.71	7.33	9.05	11.28	13.72	149
Ford PI Utility AWD 3.7L	1.84	2.90	4.28	5.86	8.02	10.23	12.92	16.29	21.00	131
2014.5 Ford PI AWD EcoBoost 3.5L	1.49	2.22	3.13	4.17	5.66	7.23	8.92	11.10	13.50	132
2014.5 Ford PI Utility AWD EcoBoost 3.5L	1.61	2.43	3.42	4.60	6.28	8.05	10.09	12.64	15.51	131

**All results listed above are preliminary and are subject to change.

Circle 6043 for More Information

Summary of Vehicle Brake Testing

	Phase 1 Average Deceleration Rate	Phase 2 Average Deceleration Rate	Overall Average Deceleration Rate	Projected Stopping Distance from 60.0 mph
Chevrolet Caprice 3.6L	30.43	30.63	30.53	126.8 feet
Chevrolet Caprice 6.0L	30.30	30.39	30.34	127.6 feet
Chevrolet Impala 3.6L	28.82	28.73	28.78	134.6 feet
Chevrolet Tahoe 5.3L	29.26	28.88	29.07	133.2 feet
2014.5 Dodge Charger 2.65 3.6L	30.10	29.98	30.04	128.9 feet
Dodge Charger 2.65 5.7L	30.46	30.41	30.43	127.2 feet
Dodge Charger 3.07 3.6L	30.47	30.28	30.37	127.5 feet
2014.5 Dodge Charger 2.65 5.7L	30.81	30.42	30.62	126.5 feet
2014.5 Dodge Charger AWD 3.06 5.7L	30.09	30.41	30.25	128.0 feet
Ford PI Sedan FWD 3.5L	28.75	29.03	28.89	134.0 feet
Ford PI Sedan AWD 3.7L	28.10	28.56	28.33	136.7 feet
Ford PI Sedan AWD EcoBoost 3.5L	28.40	28.61	28.51	135.8 feet
Ford PI Utility AWD 3.7L	28.75	28.95	28.85	134.2 feet
2014.5 Ford PI AWD EcoBoost 3.5L	28.84	29.14	28.99	133.6 feet
2014.5 Ford PI Utility AWD EcoBoost 3.5L	28.48	28.93	28.71	134.9 feet

**All results listed above are preliminary and are subject to change.

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2014 Chevrolet Tahoe PPV

DESIGNED TO ANSWER THE CALL OF DUTY.

[1] When running on E85, Tahoe PPV offers an EPA-estimated mpg 11 city/16 hwy; Impala Police Vehicle 13 city/21 hwy; and Caprice PPV 13 city/18 hwy (V-6), 11 city/17 hwy (V-8). E85 FlexFuel capability is not available in AZ, CA, CT, DE, MA, MD, ME, NJ, NY, OR, PA, RI, VT, and WA. E85 is a combination of 85% ethanol and 15% gasoline. Go to afdc.energy.gov/afdc/fuels/ to see if there is an E85 fuel station near you.

[2] Based on results from the Michigan State Police Test conducted on Sept. 15 and 17, 2012.

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2014 Chevrolet Caprice PPV

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and better tires have made that scenario just another old cop's tale.

The MSP's brake testing is easily the most grueling test they perform. Let's face it, the new cruisers are happiest when the speeds are approaching Mach I, but it takes genuine talent and concentration to get them to stop where they're supposed to. On several occasions in years past, the MSP test troopers have blown tires and they've even had brakes erupt in flames during brake testing.

This year's winner with the shortest estimated 60-0 stopping distance was the 2014.5 Dodge Charger with 2.65 rear gearing at 126.5 feet. (Mother Mopar has struggled with police car braking for years, but they have it fixed now!) The closest challenger (with 126.8 feet) was the V-6 Caprice and the best SUV was the Tahoe at 133.2 feet.

The two worst stopping distances were recorded by the two AWD Ford Sedan Interceptors at 135.8 and 136.7 feet. I would have assumed AWD would improve stopping distance, but this was not the case with the Fords. Even the much heavier HEMI Charger with AWD beat them at 128 feet.

Now Try that on Two Wheels

All of the MSP troopers involved in vehicle testing earn their pay, as it is many long days of preparation followed by two days of intense testing under the close scrutiny of their peers from throughout North America. But, the troopers who really put it on the line are the brave souls who test the motorcycles. Any of you who have ridden motorcycles know that the differences in handling

The "Beemer" (BMW) bike proved to be in the fastest again this year at 139 mph.

and performance between the manufacturers' offerings can be extreme. America's tried-and-true Harleys are as different as night and day from the imports. At least cars have the stop, shift and go controls in the same location – not so with motorcycles.

The MSP motorcycle testers have their work cut out for them and it is thrilling to watch them put the solos through the paces. I have no idea how much familiarization time they are given on each of the bikes, but, when you see them in action, you'd swear they've been riding the different brands all of their careers!

Those among you who remember when the national speed limit was 55 mph and, then, when it finally changed upward, it felt like 70 was flying. Fast-forward to this year's MSP tests and the top car speeds were all over 130 mph. I know many people today who still have never been over 100 mph in a car. Imagine driving some of these incredible speeds in your personal car and then take away the safety and security of seat belts, air bags, a solid steel container and four tires on the ground and you have a motorcycle. Toss into the mix wind; bugs; and surprise surface elements like oil, water, sand and gravel and you can imagine the environment in which the MSP troopers evaluate police motorcycles.

The fastest speed recorded by this year's crop of motorcycles was 139 mph by the BMW F800 GTP, followed closely by its cousin, the R1200 RTP at 130 mph. The two Moto Guzzis followed at 129 mph and 122 mph, with the Victory and two Harleys trailing at 115 mph, 110 mph and 107 mph. The venerable Harleys also posted the slowest 0-60 and 0-100 times of the lot, with the fastest 0-60 and 0-100 going to the BMW 1200 and the second place in both going to the Moto Guzzi 1200.

The import bikes also recorded the shortest estimated stopping distances; the best being the BMW 800 at 128.4 feet and the Moto Guzzi 1200 at 131 feet, but the longest distance was a scary 31.5 feet further, posted by the Victory Commander at 159.9 feet. That's nearly two car lengths and could be a serious problem for a rider. The two Harleys fared somewhat better at 143.4 and 144.9 feet, but still further than all four imports.

Summary of Motorcycle Acceleration and Top Speed Testing

	0-20 mph (sec)	0-30 mph (sec)	0-40 mph (sec)	0-50 mph (sec)	0-60 mph (sec)	0-70 mph (sec)	0-80 mph (sec)	0-90 mph (sec)	0-100 mph (sec)	Top Speed (mph)
BMW R1200 RTP	1.35	1.93	2.57	3.54	4.37	5.54	6.80	8.60	10.79	130
BMW F800 GTP	1.64	2.43	3.13	3.85	4.99	6.04	7.71	9.64	12.10	139
Harley-Davidson FLHP (Road King®)	1.38	2.15	2.98	4.13	5.57	7.30	9.75	13.17	18.62	110
Harley-Davidson FLHTP (Electra Glide®)	1.34	2.09	2.91	4.09	5.53	7.23	9.58	13.09	19.60	107
Moto Guzzi California 1400 Touring ABS	1.78	2.51	3.28	4.42	5.51	7.12	9.07	11.67	15.45	122
Moto Guzzi Norge 1200 ABS	1.23	2.03	2.69	3.68	4.55	5.81	7.38	9.08	11.78	129
Victory Commander	1.24	1.89	2.89	3.84	5.31	7.07	9.19	12.34	15.99	115

Summary of Motorcycle Brake Testing

	Phase 1 Average Deceleration Rate	Phase 2 Average Deceleration Rate	Overall Average Deceleration Rate	Projected Stopping Distance from 60.0 (mph)
BMW R1200 RTP	27.86	27.98	27.92	138.7
BMW F800 GTP	30.17	30.16	30.17	128.4
Harley-Davidson FLHP (Road King®)	26.57	26.89	26.73	144.9
Harley-Davidson FLHTP (Electra Glide®)	27.15	26.87	27.01	143.4
Moto Guzzi California 1400 Touring ABS	28.51	29.63	29.07	133.2
Moto Guzzi Norge 1200 ABS	29.91	29.20	29.55	131.0
Victory Commander	24.54	23.89	24.21	159.9

**All results listed above are preliminary and are subject to change.

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The Nuts and Bolts for 2014

Here's what we learned about the new cruisers and solos from the MSP staff, test attendees and factory reps. With the relocation of the gear selector to increase interior room, more supportive front seats and some other 15 improvements, the Chevrolet Caprice is the most expensive of all the police sedans. Other concerns involve the car's origin in Australia and its impact on delivery time and parts availability.

Chevrolet loyal buyers are opting for the 2WD Tahoe (at $2000 less than the Caprice) and the Impala which is still under 20K, the cheapest cruiser available. Because of the price, the new engine (which is both faster and economical), tremendous space throughout and safety features, Impala's sales have increased enough that they have been given another year's life by GM. Speaking of the Tahoe, a new pursuit rated, 4WD version will be available in about six months. GM officials confirmed

The Tahoe also scored a repeat performance as the fastest SUV.

what we reported last issue – that, because of a facelift and numerous advancements, the 2015 Tahoe price will increase by $2000. A more efficient EcoTec 3 power train, coupled with improved aerodynamics, will help offer better highway fuel economy (based on GM testing) while preserving overall performance and capability.

Meanwhile, up at Auburn Hills, the big news with the Dodge Charger is the availability of AWD in what's billed as a 2014.5 model. The bad news is that these won't be available until March or April and, in fact, dealers are not even taking orders for them until after the start of 2014.

There is also news out of Chrysler's Ram Division. Their Special Service Ram is very popular west of the Mississippi, in part because of the built-in bed side storage units. Sales of the truck *Motor Trend* has rated numero uno for several years running have been outstanding and, responding to consumer input, the 2014 models will add such law enforcement upgrades as vinyl floor mats; vinyl rear seats with cloth front bucket seats; and – last, but not least – a certified speedometer.

The 2014 Durango Special Service model features a new standard eight-speed transmission which delivers up to a 15 percent improvement in fuel economy. New interior and exterior updates include the Dodge signature racetrack taillamps, LED daytime running lamps and a seven inch customizable TFT gauge cluster.

The biggest complaint about the Ford Sedan Interceptor continues to be the cramped cockpit which left partition designers scratching their heads. The designers have come up with a single passenger compartment behind the passenger seat which then renders that seat almost unusable; whereas full partitions almost eliminate any driver over six feet tall. Most Ford loyal departments are opting for the PI Utility, even though, like all SUVs, it requires a second partition behind the prisoner to prevent rear escapes. The advantages over the sedan are many: more room in front, better visibility and AWD (which the sedan added for 2014).

Also new for 2014, Ford is launching a non-pursuit rated special service police vehicle which uses the 2.0L EcoBoost engine to meet the needs of police personnel such as detectives and administrators. The 2.0L EcoBoost engine was rated at 240 horsepower and 270 ft. lbs. of torque and is expected to yield 20 mpg in city driving and 30 mpg on the highway. With gas at $3.65 per gallon, this special service police package will save

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Ford's Police Interceptors, utilizing EcoBoost® technology, are the champions in both the 0-60 mph and 0-100 mph time trials.

agencies $5,040 over three years.

Along with the sedan, Ford will also be offering its 3.5L EcoBoost V-6 in its Police Interceptor Utility. The engine, which delivers 365-horsepower and 350 ft. lbs. of torque, has been available in a variety of Ford vehicles, including the Police Interceptor sedan. The Police Interceptor Utility vehicle currently represents 50% of Ford's police fleet orders.

One final note to Sedan PI owners: My alma mater, the Kansas City (Missouri) Police Department (KCPD), is currently evaluating several different police packages, including the Sedan Interceptor. They recently issued a warning to operators to refrain from leaving the driver's spotlight turned on for any length of time if its field of light strikes the car's outside mirror, as the mirrors have been melting from the heat. KCPD's solution has been to replace the OEM spotlight bulbs.

MOTORCYCLES

By the time we went to press, only Harley-Davidson had responded to our request for literature, so we have no information to give you about the police motorcycles from BMW, Moto Guzzi or Victory.

Harley-Davidson Motor Co. (www.harley-davidson.com)

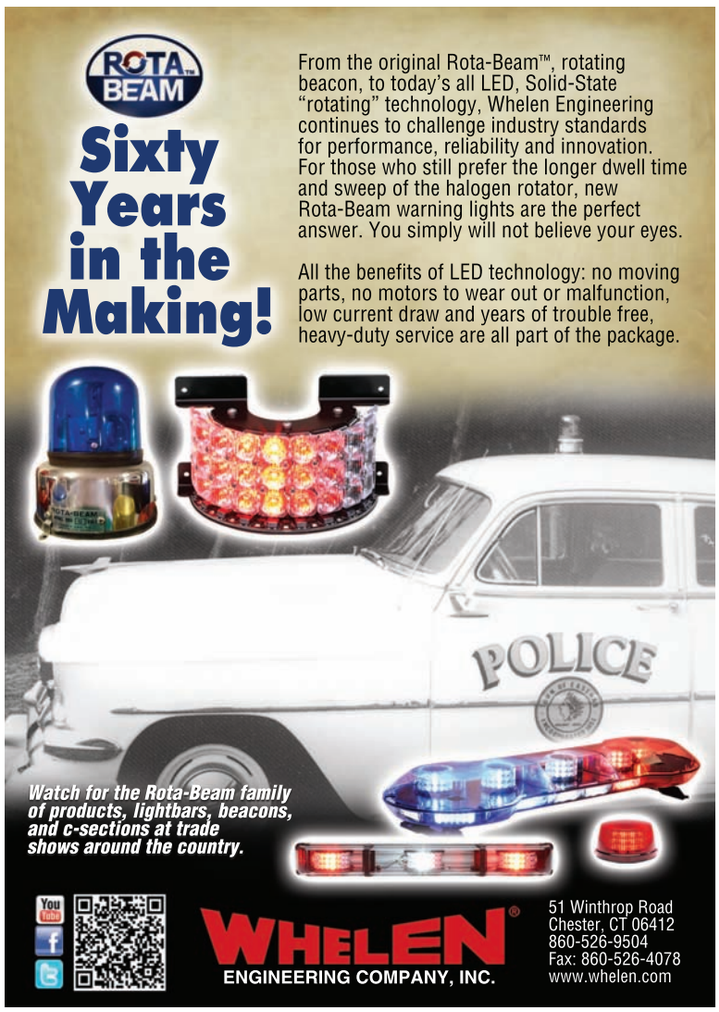
Harley-Davidson, the best-selling police motorcycle in North America, did provide us with stats on their new 2014 law enforcement motorcycles which they have tagged "Authority Reborn." 2014 marks the 106th continuous year Harley has provided motorcycles to city, county and state cops and their latest solos are new from the wheels up, boasting 6.5% more horsepower, 4% more torque and even 2% larger front lighting. New features are almost too many to list, but here are a few highlights: a new high output twin cam 103™ Police engine; new Reflex™ Linked Brakes with ABS; new Impeller Cast Aluminum wheels; new dual front, floating open rotors; new ergonomic one-touch hand controls with trigger switch activation; new

Harley-Davidson's lineup of 2014 police motorcycles feature a multitude of new upgrades.

cruise control, standard; new streamlined fenders and fairing with air intake; new LED lighting and redesigned saddlebags; ergonomic hand controls; digital and analog speedometer readout; and many more. The list goes on and on! Harley continues to field three motorcycles for law enforcement (although the three do not share all the new changes). The three are the XL FLHP Road King®, the XL FLHP Electra Glide® and the XL 883L Sportster.

2014 VEHICLE EQUIPMENT REVIEW

We always start our new equipment reviews with the new lights and sirens because, let's face it, all that other stuff which makes officers' jobs safer, easier and more comfortable is all well and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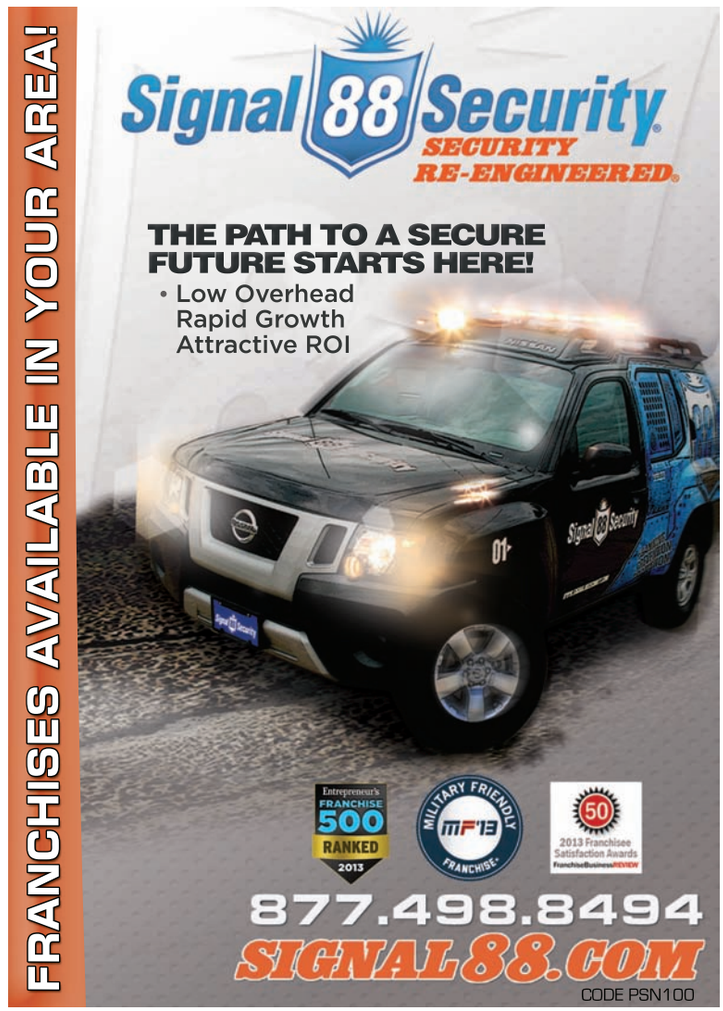


Circle 6056 for More Information

good, but what really turns us on and sells movie tickets is lights, sirens and guns! Well, you'll get two thirds here as we'll leave the guns for another issue.

LIGHT 'EM IF YOU'VE GOT 'EM
Code 3®, Inc.
(www.code3pse.com)

Our red light/blue light review starts with the good folks at Code 3 and their exciting new CELS

The Coordinated Emergency Lighting System (CELS) allows you to program all of the emergency vehicle lighting on your vehicle.

package which is an abbreviation for Coordinated Emergency Lighting System. The CELS control box works with any switching system and takes

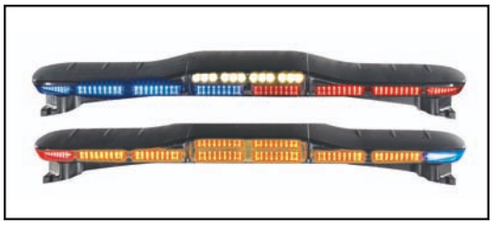
Controlling your vehicles' emergency equipment via your smartphone is now possible with vLink™.

the programmability of a lightbar and applies it to all of the accessory emergency vehicle lighting equipment. Code 3 has applied this to an entire lighting package (minus the lightbar) for the Ford Utility and Chevy Tahoe, so all lights flash in sync. In addition, CELS allows you to simultaneously dim your entire lighting system to provide more options for crime scene or traffic scene lighting, as well as the ability to steady burn all of your lights for additional scene lighting. CELS is available in five lighting packages which allow you to combine front and rear interior lightbars, exterior mirror lights, fog lights, grille lights, and more.

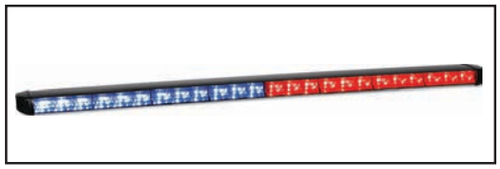
Code 3 has also developed vLink™, a remote wireless control technology for lighting and siren controls via your smartphone. This allows you to operate emergency equipment, such as lights, sirens and video cameras, as well as your car's OEM equipment, such as door locks and windows – and, even, gunlocks – from up to 300 feet away, providing remarkable efficiency in many situations. vLink has been designed to work with all of the existing brands of equipment you may have, as well as with most popular brands of personal smartphones. This also enables an officer to locate his (or her) vehicle should he (or she) become disoriented, a valuable safety tool. Not only is vLink easy to install and easy to use, but the best news is that this technology is available right now for less than the cost of three tanks of gas.

The newest product available from Code 3 is their Solex™ lightbar which incorporates a modern, cutting-edge look which is aerodynamic in appearance and performance. The Solex provides new options including a second level which allows for additional takedown lighting; additional flashing or steady burn warning lights; a 100 watt speaker with no loss of rear warning light capability; traffic emitters; and other potential warning or add-on devices. The Solex lightbar offers all of

Circle 6057 for More Information



Front and rear view of Code 3's newest cutting-edge lightbar – the Solex™



The Latitude™ warning light, from Federal Signal, comes in four, six, and eight head models.

Federal Signal's brand-new lightbars feature exclusive SpectraLux® technology.

these options while maintaining a single level appearance and aerodynamic characteristics, as it is only 2.5" tall – keeping a low profile while its 3.9" (99 mm) tall center section is designed specifically to maintain the single level low profile look. The new Solex utilizes the latest single or multicolor linear collimated LED lightheads designed for maximum straight on or off angle lighting performance. These lightheads are designed for usage with a central controller board or can flash independently, depending on your requirements.

Federal Signal Corp.
(www.fedsig.com)

Federal Signal recently introduced their new Latitude™ Warning Light which combines the exclusive Solaris® LED reflector design with ROC (Reliable Onboard Circuitry™) technology. The lightbar is engineered to significantly increase off axis warning and to maximize the LED light source. A variety of interior and exterior mounting brackets, as well as your choice of four head, six head and eight head models, provides you with countless lighting applications, both inside and outside all popular police vehicles. The LEDs are available in red, blue, amber or clear.

Also new is Integrity®, a linear lightbar with a distinctive modern shape. SpectraLux® multicolor LED technology provides the ability for a single light source to change color in operation and can be programmed to flash between red, blue, amber or white. Integrity provides continuous light output as the LED light source changes from a warning pattern to takedown to alley lights, amber SignalMaster™ directional patterns or a floodlight and also features the Solaris reflector technology and Federal Signal's Reliable Onboard Circuitry.

For customization, mounting brackets accommodate patented HotFoot® LED warning, takedown and alley lights and the FS Convergence Network provides plug and play installation and programming.

SHO-ME®
(www.able2products.com)

Those of you with older cruisers which have those annoying one inch holes drilled into OEM light housings (which once housed strobe lights) take heart. Most lighting companies now offer one inch LED units which drop right into these holes. By now, you know all the advantages of LED over strobe lights: They are cheaper and cooler to run and prices have come down so much that they can be considered as economical replacements for those fragile units.

The outdated fragile strobe tubes were only available in single colors or clear, but SHO-ME electronics has developed a unique one inch drop in LED unit which offers two different colors in one head. Combinations of red, blue, amber and white are available and they all have the in-line power supply and pattern selector.

SoundOff Signal
(www.soundoffsignal.com)

SoundOff Signal has a new full-line, tricolor family of perimeter lighting products – nForce™ LED Perimeter Lighting. Incorporating dynamic angles, crisp edges and sleek silhouettes, nForce's broad offering includes surface mount, deck/grille, windshield and recessed mount options. It can be specified in either a six, nine or 12 LED solid or split LED color(s) or in an extremely intense 18 tricolor configuration. Steady on white scene lighting can be synced with the lightbar.

Whelen's Inner Edge® interior lightbar sports a tiny 3/4" high profile.

Whelen Engineering Company, Inc.
(www.whelen.com)

For covert or slick-top operations, Whelen has developed the new Inner Edge® XLP and XLP WeCAN® DUO™, *Extra Low Profile*, fully featured

Circle 6058 for More Information

Circle 6059 for More Information

The IONV™ Series compact lights provide 25 Scan-Lock™ flash patterns.

interior lightbars. These measure a tiny 3/4" tall and fit snugly against the windshield to provide more visibility for the driver while virtually eliminating flashback. The bars are available in three LED and six LED versions with 40 Scan-Lock™ flash patterns and vehicle specific shrouds for most contemporary police vehicles are included.

Whelen has also recently introduced their IONV™ Series Super-LED® Three-In-One Combination lights which come in a variety of standalone models (for grilles, deck lids, side mounts, etc.) or SideKick™ in fender mounts for the Caprice and Police Interceptor models. Features include combination lighting for warning, flood/alley, ground lighting and 180° coverage. They are available in black ABS or chrome housings.

SIRENS

Carson Manufacturing Co., Inc.
(www.carson-mfg.com)

Carson Sirens has introduced its newest remote siren series developed for smaller spaces and it has the same options as full-sized, console mounted units. The new Elite Force siren series introduces the new QuickClone® duplication technology, making it easy to transfer option settings from one unit to another without the need for an external computer, making it ideal for fleet installations.

VEHICLE ELECTRONICS AND COMPUTERS

Products which a decade ago warranted only a paragraph or two in this column now receive an entire section in this electronic age. Two-way radios are now supplemented (and, sometimes, even replaced) with in-car terminals and laptops and camera systems have become as common as 7-Eleven® coffee.

Datalux Mobile Computers
(www.datalux.com)

Datalux continues to advance the features set in its Tracer 5 mobile data computer. The Tracer 5 is now available with the Intel® i5 and i7 processors. The brightness of the display has also been upgraded to provide better readability in sunlight than in previous versions and comes with a five year warranty.

Datalux's newest Tracer 5 is available with both Intel® i5 and i7 processors.

Digital Ally, Inc.
(www.digitalallyinc.com)

Digital Ally, Inc. has introduced two new products; the first being the DVM-800 in-car video system. This is a high-end digital in-car system with five year warranty protection for under $4000. They also offer credit discounts for trade-ins of existing in-car video systems. The base package features four cameras; dual camera simultaneous recording; wireless download; 720 pixel resolution; a wireless microphone; a 3.5" integrated color monitor (invisible when not in use); a GPS; vehicle and

Circle 6060 for More Information

Digital Ally now offers the first system which allows body worn cameras and in-car video systems to be activated simultaneously.

event metadata; internal battery backup; and more. Wow, I can't wait to see the next car chase filmed with one of these bad boys on the 6:00 p.m. news!

With the introduction of FirstVu™ HD, Digital Ally's lightest, longest lasting and most powerful body worn video system, they are now providing the first system to allow body cameras and in-car video systems to be automatically or manually activated simultaneously. FirstVu can be programmed to start with the siren or emergency light activation or manually started by an officer outside the vehicle. When used with the Pre-Event Recording feature of the video system, which captures footage from before a recording is triggered, it eliminates the need to record continually and saves batteries and storage space.

Gamber-Johnson's new Tablet Display Mount offers easy installation.

Gamber-Johnson, LLC
(www.gamberjohnson.com)

Gamber-Johnson has added the new compact Tablet Display Mount to their line of computer mounts and docking stations. The Tablet Display Mount was designed to easily mount a tablet or display computer closer to the dash without the need to tear apart the dash or relocate any of the existing OEM controls on the instrument panel. This new mount has various industry standard hole patterns to allow a variety of tablets and display computers to attach directly to it. If you need an accompanying keyboard mount, they have you covered, too.

Havis, Inc.
(www.havis.com)

In a venture unheard of before now, the LAPD, Ford Motor Company and Havis, Inc., along with Crown North America, the National Safety Agency and Lectronix, united to develop an integrated system which will allow officers to control radios, emergency equipment, video cameras, and OEM HVAC controls from one screen. This application requires no console or other clutter and is actually mounted into the dashboard of the Interceptor Sedan or Utility, utilizing mounting points to secure the Lectronix monitor. The Havis Integrated Control System is designed to fit in the dash without modification or air bag interference. It maintains the flush profile of the OEM dash and provides a wide viewing angle for both driver and passenger operation. The system's molding secures a 12.1" touch screen display which is daylight readable and can be used with wet or gloved hands. Tactile buttons replace the factory HVAC controls, hazards and air bag indication and also control the touch screen display's power, mode, volume and brightness.

The new Havis Integrated Control System mounts into the dashboard without the need for modifications.

Lectronix provided custom software to meet the LAPD's requirements and needs. It allows for full integration of radio connections, video inputs, GPS, laptops or tablets, peripherals, radar detection, license plate recognition systems, relocated HVAC and factory controls, and other equipment.

In addition to the Integrated Control System, Havis has developed a docking system for the Apple® iPad® which will be available by year's end.

Havis also introduced its new Docking Station for the Getac F110 Rugged Tablet. As the exclusive provider of this solution, Havis has been working closely with Getac to develop a rugged docking station designed specifically for their F100 11.6 Windows® 8 tablet. The Docking Station Series will

Circle 6062 for More Information

include a variety of models which feature a triple high-gain antenna to improve range and a Lind power supply with customized cord length and connector tip. It will also be one of the first Havis docking stations to offer models with an internal power supply which connects to the vehicle's lighter plug for convenient charging.

Kustom's new LaserCam 4 combines laser with video.

Kustom Signals, Inc.
(www.kustomsignals.com)

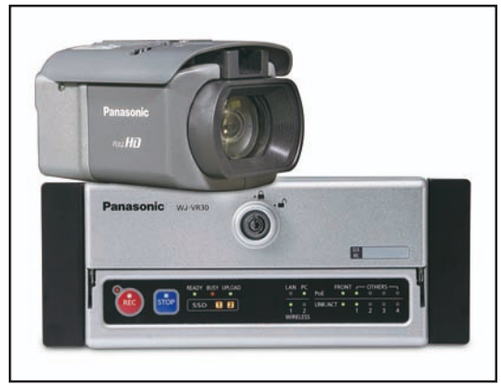
Kustom Signals' new LaserCam 4 combines laser with video – thereby providing officers with a comprehensive tracking history of speeders. Powered by Kustom Signals' newest laser product, the ProLaser 4, it offers a full color touch screen with a 3.2" LCD screen with auto zoom and focus which greatly simplifies its use. This new unit is also Bluetooth® enabled which allows for wireless roadside printing of citations and data is available for download through internal SD cards.

MNSTAR Technologies, Inc.
(www.mnstar.com)

MNSTAR's new patrol vehicle harness, the Integrator Level 2, is designed for regular marked patrol, Special Service SUVs and federal law enforcement vehicles. The product provides a common architecture to the entire patrol fleet – regardless of make or model of vehicle. By utilizing the same standards, wire colors and circuit identification found in all MNSTAR law enforcement products, this harness combines fleet-wide uniformity with an adaptable design. It is available in either front, mid-ship or rear battery layouts and features a single centralized fuse panel in the rear of the vehicle.

Panasonic
(us.panasonic.com)

New from Panasonic is the Arbitrator 360°™ HD, a high-def digital in-car video system. Recording in 1080p full HD resolution, this system supports recording of up to five HD cameras simultaneously to provide a full 360° view in and around the vehicle. Its 1080p full HD front camera captures a 65° field of view and provides a 30X optical zoom and 12X digital zoom, creating a 360X zoom capability. Side and rearview cameras provide 720p high-definition resolution, 150° horizontal fields of view and 93° vertical fields of view to bring full 360° situational awareness. The Arbitrator 360° HD is designed to support remote streaming and control capabilities which allows real-time support from headquarters or a mobile command center. It also has the ability to capture images in near complete darkness through the use of Panasonic's new CMOS Sensor. The Arbitrator 360° HD system integrates video capture, storage, transfer, and file management to serve as a complete digital evidence solution.



The new Arbitrator 360°™ HD, from Panasonic, integrates video capture, storage, transfer, and file management.

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RAM® Mounting Systems' new Roto-View™ Adapter Plate is an easy to use interface for your tablet.

RAM® Mounting Systems
(www.rammount.com)

RAM Mounting Systems recognizes the need for flexibility when choosing mounting solutions and that many departments are selecting tablets as viable, convenient and cost saving alternatives for their vehicles. RAM Mounts offers a number of tablet mounting solutions, including some with and without sleeves; heavy-duty protective cases; and locking and docking versions of the iPad®. For example, the Roto-View™ Adapter Plate is an easy to use interface for a tablet which makes for a use-friendly experience – portrait or landscape – while on the go.

The Zero Sightline™ HD camera tucks neatly behind the rearview mirror inside the police car.

WatchGuard Video
(www.watchguardvideo.com)

WatchGuard Video, a manufacturer of in-car video systems, introduced the new Zero Sightline™ high-definition camera earlier this year. About the size of a credit card and about 3/4 of an inch thick, this camera tucks neatly behind the rearview mirror inside the police car which hides it from the officer's sight line completely and thereby maximizing his (or her) view. The Zero Sightline camera also incorporates ultrawide dynamic range technology to capture the highest quality video – even in the most difficult lighting conditions such as dawn, dusk and nighttime.

Also new is Watch Commander™, a secure Live Video Streaming (LVS) solution which works with any WatchGuard 4RE™ system to give agencies complete situational awareness in real time. It allows command staff (or any authorized officer) to see and hear what is happening as a situation

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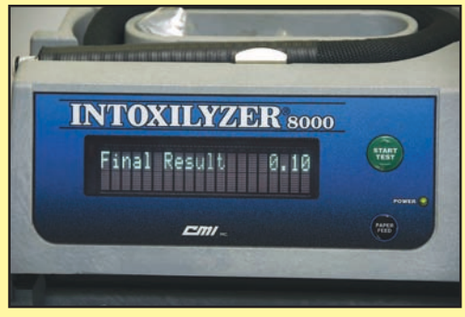


NEWS

Tool Will Monitor Progress Reducing Impaired Driving

The Traffic Injury Research Foundation (TIRF) will develop a tool which U.S. jurisdictions can use to internally monitor progress in reducing impaired driving. This tool can also help inform decision-making regarding potential strategies to address the problem.

The tool will incorporate a broad range of indicators and measures, including the presence and use of countermeasures. They include high visibility enforcement, alcohol interlocks and DWI courts, and related environmental and contextual factors (population density, the availability of public transportation and competing political priorities).

The results from testing the tool will be reviewed by the Working Group on Driving While Impaired (DWI) System Improvements (**www.dwiwg.tirf.ca**) and other key experts representing criminal justice, transportation and highway safety professionals. Feedback from these experts will be used to further fine-tune and finalize the development of the tool. It will contain a "dashboard" of important measures which can provide jurisdictions with a comprehensive overview of their respective DWI systems and insight into how and why progress is being achieved. Once completed, the tool will be made freely available to all U.S. jurisdictions.

It is anticipated this project will be completed in early 2014. Project funding is provided by Anheuser-Busch.

unfolds, providing video, data and audio. Watch Commander enables authorized users to access live feeds on any device on a law enforcement agency's network (PC browsers, mobile tablets and smartphones).

PRISONER TRANSPORT CONTAINMENT SOLUTIONS, SEATING AND GEAR

Aedec
(www.aedec.com)

The new Aedec molded prisoner seat for the Chevy Tahoe provides a rugged factory fit and finish. The sealed design prevents contraband from being hidden from view while maximizing space to allow for safer, easier prisoner loading and unloading. The innovative support system provides a 48 inch wide equipment storage area. The standard seat comes with the Aedec "Centerbelt" system, a metal mesh rear partition and all of the necessary hardware to install it.

The latest Pro-Straint® seat for the Chevy Tahoe includes both a Centerbelt system and a metal mesh rear partition.

Pro-gard Products LLC
(www.pro-gard.com)

Pro-gard Products has announced a trio of new products. First is a rugged Trunk Organizer for the Ford Sedan Interceptor which snugly fits the contours of the spare tire well. To use this container, you'll have to leave the spare tire at the garage.

Pro-gard has invented a product which should be welcomed by any officer who has to transport arrestees. Their Prisoner Transport Lighting solves the decades old problem of inadequate lighting inside police cars. Officers need to clearly see in the prisoner's area to search for weapons, contraband and contaminants. Pro-gard's lighting fills the bill. These LED lights are either brilliant white or ambient red. They are sold in pairs with a three-way switch and are surface mounted.

Pro-gard develops motorcycle equipment and the most recent is a Motorcycle Gun Rack for the Harley-Davidson FLHP Hi-side Saddlebag. It can securely house (and conceal) a collapsible stock AR type assault rifle which collapses to no more than 27 1/4" overall. The sturdy rack features an electronic lock with handcuff key override and an eight second timer and can also hold an additional magazine.

Setina Manufacturing Company, Inc.
(www.setina.com)

Setina's new TPO (Thermosplastic PolyOlefin) Seating Systems are easily installed with a precision fit right over a vehicle's existing seat. There is no longer the expensive need to remove and store the factory seat. The advanced design also provides the ability to retain the factory seat belt location or the flexibility to change your seat belt location to latch on the outside using factory seat belt parts. The TPO Seat and Floor Plan encloses and "saves" the factory seat and it is ideal for contraband control and for easy biohazard clean up.

Setina's new TPO Seat and Floor Pan are easily installed and give vehicles an OEM factory appearance.

The TPO Seating Systems are part of a new Total Prisoner Transport Solution featuring products which combine to provide an easy, economical design for quick and easy installation.

Setina's new Cargo Trunk Tray provides plenty of storage space.

Also new is their Cargo Trunk Tray for rear cargo area equipment storage. Built from heavy-duty lightweight aluminum, the top box is lockable for firearms and other valuable accessory storage. The bottom slide out tray is designed with a 300 pound capacity.

SAVING THE BEST FOR LAST

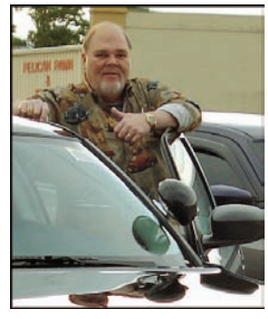
Lenco Armored Vehicles
(www.lencoarmor.com)

The Lenco MedCat® is designed to meet the requirements of SWAT operators and tactical EMS personnel. The MedCat can be used as a response and rescue SWAT truck while providing trained personnel with a safe and effective environment to deal with trauma cases. The MedCat is equipped with wall mounted stretchers which can be secured to custom bench seats. Operators still have room to utilize the roof hatch, gunner's stand and gun ports. There are two onboard oxygen tanks with a lighted workstation, a radio compartment workstation and custom-built interior cabinets for medical supply and gear storage.

Lenco's new BombCat® can accommodate a tactical robot up to five feet in height.

The Lenco BombCat® was designed with leading EOD professionals to meet the requirements of Explosive Ordnance Tactical teams. The BombCat can be also be used as a SWAT truck in dangerous situations while providing bomb techs with a safe and effective environment to approach suspicious packages. The BombCat is designed to accommodate a tactical robot up to five feet tall in the vehicle's rear compartment. Robots enter and exit the vehicle through a side ramp and can be deployed from a hydraulic lift system located at the front of the vehicle. A high-powered 36X zoom color and thermal camera which can elevate ten feet above the roof is available for enhanced visibility.

That's it for this year's Transportation issue. We sincerely hope we have given you some ideas which will save you money in this troubled economy.



About the Author: James G. Post always welcomes your comments, complaints and ideas. He may be reached at kopkars@arkansas.net.

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TACTICAL TELEMEDICINE

Bill Siuru, Ph.D., PE

The U.S. military has been working on telemedicine for real-time, electronic, point of treatment care on the battlefield for several years.

Now, this technology is being developed for SWAT teams who are often first responders to high risk incidents involving both suspects with weapons and victims with serious injuries. Thus, the situation is too dangerous for regular emergency medical personnel to provide lifesaving assistance.

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Circle 6071 for More Information

A SWAT officer is using a video camera to record and transmit medical information.

Telemedicine can use two-way video, smartphones, wireless links, and other telecommunications technology to communicate medical information. Tactical Telemedicine (Tac-Tel) takes an existing telemedicine framework and puts it into the hands of SWAT team members who find themselves in high risk settings without immediate medical support.

Joint Testing

The Palm Bay Police Department (PBPD) and the Trauma Center at Health First/Holmes Regional Medical Center in nearby Melbourne, FL, are jointly testing Tac-Tel. When PBPD SWAT officers are sent into high risk situations involving trauma injuries, they can use Tac-Tel to communicate virtually with trauma surgeons. The Tac-Tel system includes firefighter-paramedics who train with the SWAT officers.

A trauma physician is viewing images captured by the SWAT team.

Testing of the Tac-Tel program began in 2011 and the final stages of training are underway with deployment planned shortly. The City of Palm Bay was allowed access to the Florida Trauma Telemedicine Network (FTTN). This eliminated the need to acquire special telepresence equipment which normally costs several hundred thousand dollars. With just a department laptop or tablet, a 4G hot spot and a commercial USB camera and headset, PBPD SWAT medics are able to communicate with trauma centers for less than $1,500. The connection is secure, wireless and in real time.

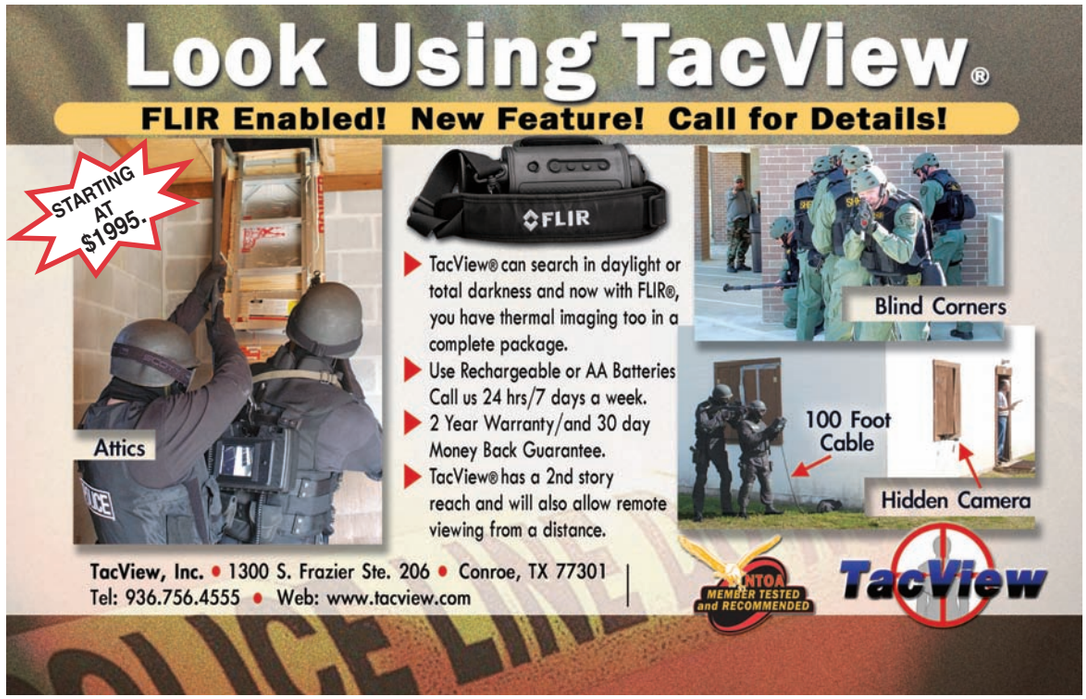
The Golden Hour

With the Tac-Tel project, if a victim is critically

injured, trauma surgeons can get a faster look and give assistance to the tactical team before the victim is taken to the trauma center for treatment. Trauma physicians are able to see this patient literally within minutes after the injury has occurred. This knowledge can be crucial in helping to be better prepared for the patient on arrival and to make every second of that critical "golden hour" count. Other local governments and agencies are encouraged to connect with Palm Bay's TacTel leaders to learn more about the program.

For more information, contact:
Jeni Hatter
Health First Media Relations Specialist
Phone: (321)434-7650
E-mail: jeni.hatter@health-first.org

About the Author: Bill Siuru is a retired USAF colonel. He has a Ph.D. in mechanical engineering from Arizona State University. His military assignments included teaching engineering at West Point, commander of the research laboratory at the U.S. Air Force Academy and Director of Engineering at Wright-Patterson AFB. For the past 35 years, he has been writing about automotive, aviation and technology subjects.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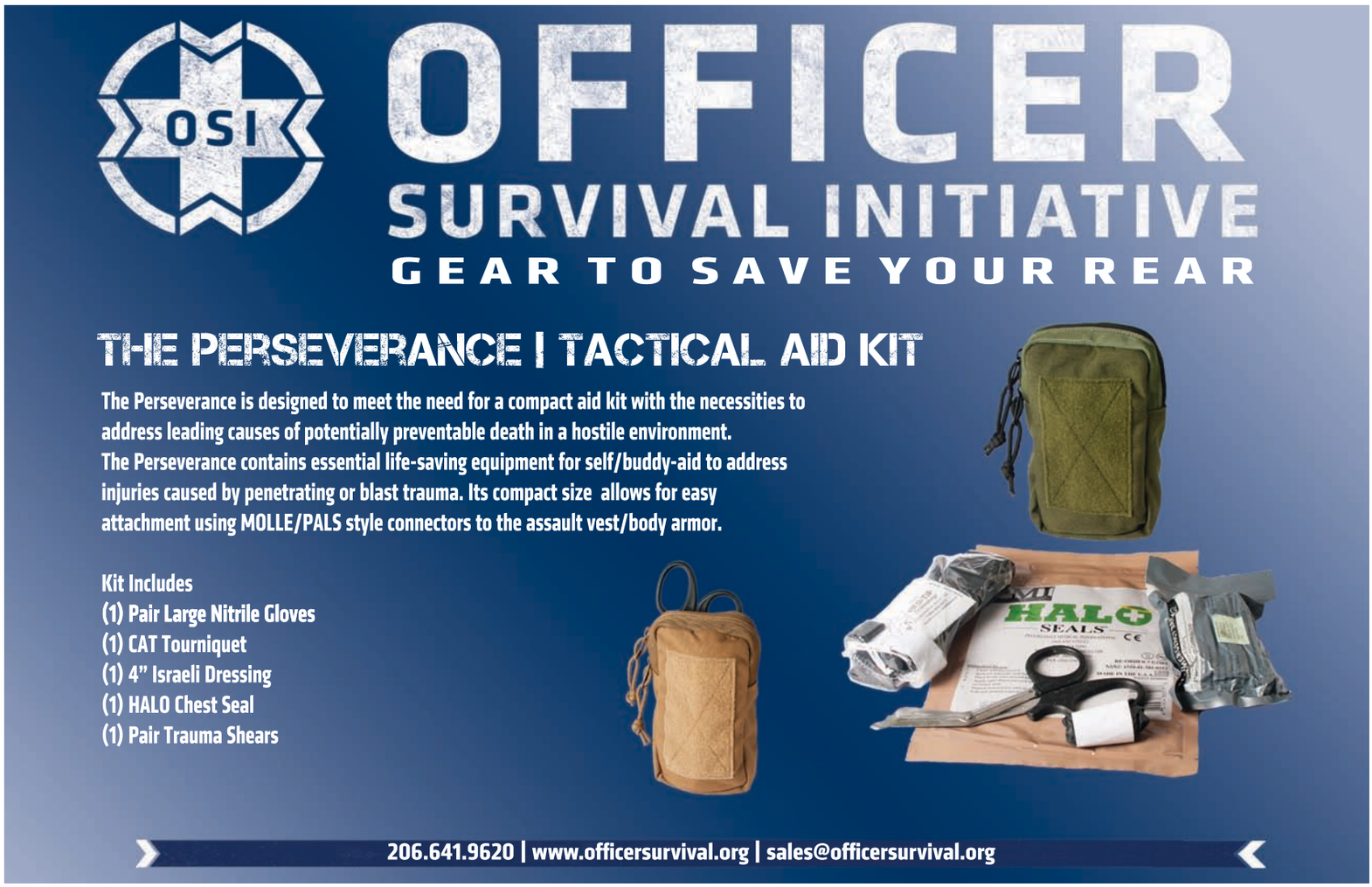
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Circle 6072 for More Information

NIGHT WORK

Combative Applications When the Light Gets Low

Dave Spaulding

While the exact percentage fluctuates from year to year, it is safe to say that two out of three shoot-outs occur between the hours of 6:00 p.m. and 6:00 a.m.

The FBI and NYPD have kept statistics of police officer involved shootings for decades. One trend which both agencies have charted consistently is that the majority of police gunfights occur in reduced light environments. This should not be surprising – being able to conceal criminal activity in the dark makes it far more likely the act will go undetected, as it is hard for humans to see. An undetected criminal action results in a successful crime – period! While criminals might not be brain surgeons, they do have a well developed street sense and they realize darkness gives them an advantage they will not have in daylight.

This being the case, it makes sense to prepare for dealing with a criminal action when the lights are low. First, we must understand the dynamics of operating in a reduced light environment and then equip ourselves with gear which will help us respond successfully when darkness falls. Fortunately, most all of the current handgun manufacturers build models which will enhance an officer's ability to deal with inconsistent light threats regardless of which type of handgun you prefer. In addition, long guns can easily be adapted with sections of Picatinny rails which will permit the mounting of these same lights. But, first, let's look at the dynamics of reduced light confrontation.

Reduced Light Conflict

I am sure it will come as no surprise to the readers of *Police and Security News* when I say human beings just do not see well when it's dark – a "duh" moment, right? I know, the statement is redundant, but it does not make it less true. While the military has made huge strides in their night fighting capabilities, the unaided human eye just sucks in the dark. There are physiological reasons for this (rods

Circle 6074 for More Information

Combination white light and laser sights are becoming increasingly popular as they offer options and options are always good in armed combat.

and cones, etc.), but I will not deal with those issues here as a simple Internet search can answer all of these questions and concerns. In simple terms, the best thing to do when functioning in the dark is to increase the level of light so that an officer can see better and the easiest way to do this is to use some type of artificial light. The current trend in law enforcement training is to try and use the darkness as concealment and this technique does have some advantages. Courses of instruction, like that from the SureFire® Institute, offer proven methods of "dominating the darkness," but they do require practice and training – something everyone with a firearm should seek, but let's also be realistic about how often police officers train. Keeping this in mind, there are simpler methods which can also apply.

Switch 'Em On

During my law enforcement career, I was a big believer in turning on the lights whenever possible. Since most light switches are located on one side of the door or the other, when entering a building or room, I would hook my arm/hand around the wall and switch on the lights while I stayed in the dark behind the wall. This "leveled the playing field," creating a lighted environment which would briefly hinder anyone in the room as their eyes adjusted to the light. I said, "*briefly*," as the eyes adapt to light much more quickly than they do to the dark. While turning on the lights is not always the best move, I found it a lot easier to search for bad guys in a lighted environment than I did flashing and blinking a white light beam in the dark. Am I lighting myself up by turning on the lights? Sure, but you don't think someone hiding in the dark will not see my flashlight going on and off with me at the end of the beam? Also, how would you handle such a situation in daylight? In truth, there are times when both moving in the dark or turning on the lights are needed and it is *situationally dependent*, but, then, most things which happen in armed conflict usually are. During training, practice clearing rooms in the reduced light, but strategically leave on night-lights so the structure is not totally dark, as this will have an impact on how you proceed. Keep in mind that complete darkness is seldom the situation; it is usually "pockets" of light and dark which make it difficult to operate when light is low. Have a firearm readily available by changing the "ready position," keeping in mind that no single ready position will work for all situations! The ready position used will change which direction a weapon mounted light is oriented, making a handheld light a must. Use mirrors, glass and other reflective objects to enable you to see around blind corners – make it a point to look for these as they are invaluable!

Using the white light to momentarily distract is sound practice, but it does not overwhelm an opponent to the point where they cannot shoot in your direction. Use the technique with caution and from a position of cover, if possible.

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Proceed slowly and with great care, as you do NOT want to be in a hurry to get shot – the words *skill and patience* come to mind!

SWAT Considerations

A dynamic entry or rapid assault will change the use of the light. While SWAT teams do the best they can to know where the suspects are when they enter, this is not always possible. For the drug entry team, the situation inside a building is always evolving and, while early morning is used in hope that the suspects are asleep, this is not always the case. Humans can be found most anywhere upon entry, making such a raid quite hazardous. Reduced light only makes this condition worse as pandemonium will reign as teams members move through the house yelling "POLICE!" and using narrow cones of white light to illuminate threat areas quickly, meaning they will be flashing and bouncing randomly. Decisions made in the rapid entry environment and reduced light make already narrowed vision more restricted.

When outside, use natural and man-made lights whenever possible, so you can see as you approach; have a personal flashlight on you at all times, both on and off duty; and always carry your gun. Don't try to "magically" decide when you will or won't need it. Having a white light on you at all times is easier than ever before, due to the small size and large power of today's handheld lights. A perfect example of this is the Fenix E11, a light the size of a lipstick tube which has momentary and constant

The primary advantage of the weapon mounted light is the ability of the shooter to keep both hands on the pistol, thus enhancing combat accuracy.

on/off capability while offering 120 lumens of bright light. I carry mine in the change pocket of my jeans, so it is always available, but I forget I have it until I need it. Stay alert even if you are just doing a routine patrol or grabbing a cup of coffee. When going from light to dark environments, have a white light *in hand and ready to use*; understand how the human eye works in low light and adapt accordingly. Understand that "reduced light" environments are not really about being in the dark or light; it's about the *inconsistent light environments in which we all work and live*. What am I referring to? Think about looking into a dark closet or basement during the day, looking down a street at night and notice the light and dark pockets due to man-made illumination or having a light in a crisis event. It is well documented that the people who had a personal flashlight in the Twin Towers on 9-11-01 got out while those who could not see in the dark, dust, smoke and other vision inhibitors did not. Something to think about as police officers can get caught in natural and man-made disasters, too.

Reduced Light Pistol

The duty and personal (off duty/concealed carry) sidearm will go a long way towards making you more secure when the light goes dim. No, it will not turn you into a "night fighter" – that takes training and practice, but it is a heck of a good start! As previously stated, most of the manufacturers make handguns with light rails built in, so it is easier than ever before to add a white light or laser to a carry pistol. The trend was started by Heckler & Koch (HK) in the early 1990s with the introduction of their USP Pistol. The dustcover rails which were molded in allowed for the addition of their Universal Tactical Light (UTL) which rotated on from the side. The folks at HK thought the light would be added as needed and designed the light so it could be added without having to place the hand forward of the muzzle. This is still a good feature, but it does make it slightly more difficult to add the light versus sliding it on from the front.

Front mounting is the preferred method and, if

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memory serves, it was GLOCK® which started this trend. Today, carrying both the duty and off duty gun with a light in place all the time is the status quo. At one time, the thought of this made me cringe as I could see officers using the weapon mounted light as a handheld light, but this turned out not to be the case! Police officers nationwide seem to grasp the concept that the weapon mounted light is a *supplement* to the handheld light and to use the duo accordingly and this applies even to tactical- or SWAT-related activities. Fortunately, for today's law enforcement officers, there is no shortage of gear to enhance reduced light capability. SureFire is the world's leader in white light, offering a wide variety of handheld and weapon mounted lights. Their X300® series is used by both military and law enforcement professionals around the globe due to its high lumen output and robust construction which will stand up to the battlefield or the street. The X300 also comes in a white light/laser combination which many feel is the ultimate in reduced light capability.

Other Options

The FM Optics FMTFLS is another white light/red laser combination which offers 95 lumens of power with a 650 nm beam size. The unit offers 16 hours of white light use with four power settings. The unit uses two CR123 3V Lithium batteries in a matte black polymer case which weighs a mere nine ounces. With an overall length of 3.25 inches, two modes of operation (constant on/off and momentary) and the ability to use a corded pressure switch, the FMTFLS is very adaptable. The unit attaches to any Picatinny style rail via a thumbscrew tension attachment which is easy to take on or off. A simple weapon mounted light I have been using for the last few months and impresses me greatly is from a new company called INFORCE®. The patent pending INFORCE APL LED auto pistol light produces 200 lumens of white light with a tight beam for close to midrange use and balanced peripheral light for scanning surrounding areas. The ergonomic, bilateral, ambidextrous paddle switching system affords left- or right-hand activation and natural finger movement from the weapon body to the switch. The INFORCE APL is ultralight and durable inside and out. Its integrated mounting system is compact, convenient and securely attaches without tools, making it useful both on and off the light. INFORCE is doing some great things for reduced light confrontations and is certainly worth a look.

The SureFire® X300® is one of the best-selling weapon lights on the market. Adaptable to handgun and long gun alike, the X300 is also available with a laser sight.

In the End

Preparing for reduced light conflict is a combination of training, planning, practice and mind-set, but having the right gear enhances all of these. Truth be told, the eyes just plain suck in the dark and it is up to each officer to prepare for operation when the lights are low. Remember, when it comes to white lights, "one is none and two is one." After all, they are battery operated...

About the Author: Dave Spaulding is a 34 year veteran of law enforcement and security operations. He retired with the rank of lieutenant and worked in all facets of law enforcement, including communications, corrections, patrol, court security, investigations, undercover operations, SWAT and training. He is the author of over 1,000 articles which have appeared in law enforcement and firearms publications and is the author of two best-selling books. He was named the 2010 Law Enforcement Trainer of the Year by ILEETA and Law Officer *magazine.*

Circle 6077 for More Information

THE ALTERNATIVE™

A new system instantly converts an officer's sidearm into a less-lethal weapon, incapacitating an individual through blunt force trauma.

Bill Siuru, Ph.D., PE

Often, you hear about a police officer who shot someone who appeared to be about to shoot at the officer or reached into a pocket or waistband for what the officer thought was a weapon. After the person was wounded or killed, it was found that the suspect was just holding a cell phone, reaching for ID or was even a kid with a toy guy. Along with being a tragedy, the department is likely facing a significant lawsuit.

Police officers are often faced with situations calling for less-lethal force, but, in the split second available for making a decision, have to use lethal force by firing his (or her) gun. Alternative Ballistics LP has developed a lightweight, extremely accurate and affordable system – THE ALTERNATIVE. It provides the option to apply less-lethal force in situations when lethal force is warranted, but may not be the appropriate way to resolve the situation.

Quick Deployment

This new system instantaneously converts an officer's duty weapon into a less-lethal weapon, while still allowing it to fire a conventional round, if needed. The system consists of two main components – a docking station and a slug. THE ALTERNATIVE mounts directly onto the muzzle of a standard, unmodified handgun. The docking station comes in several different versions so it can be easily mounted onto the muzzles of most law enforcement sidearms.

When the handgun is fired, the bullet travels down the barrel through the docking station and into THE ALTERNATIVE which captures the bullet, transferring its kinetic energy, as well as adding its mass, to the less-lethal slug. The slug travels to the target with great accuracy – testing showed sub one inch groups at its maximum effective range of 30 feet.

THE ALTERNATIVE™ has only two basic parts.

The dock is then ejected from the handgun and falls to the ground. The weapon is now returned to its normal lethality, ready to fire a normal round. THE ALTERNATIVE is carried in a pouch on an officer's duty belt or tactical vest. It is easily removed and mounted on the barrel without having to place a hand in front of the weapon or without taking one's eyes or weapon off the target. The officer is not vulnerable while transitioning to a less-lethal option. This action becomes second nature with a bit of practice.

Performance

Independent testing to evaluate the penetration and blunt trauma produced was conducted by Chesapeake Testing. Penetration testing using gelatin was conducted for the 9mm, 124-grain Golden Saber™ and .40 S&W, 165-grain Brass Jacketed Hollow Point (BJHP) ammunition. The 9mm bullets were fired from a GLOCK® Model 17 pistol and the .40 S&W were fired from a GLOCK Model 22 pistol. All tests resulted in laceration injuries, but no penetrations. Statistical analysis indicates that the penetration risk of THE ALTERNATIVE is very low when compared to other less-lethal options.

Blunt trauma testing was performed using a clay surrogate with a piece of 500 denier Cordura® nylon secured to simulate clothing and assist in projectile retrieval. The values were compared to the 44 millimeter limit established for body armor testing. Values above the 44 millimeter limit can result in moderate to serious injuries which would incapacitate an individual. The testing resulted in average values of 68.6 millimeters for the 9mm round and 60.6 millimeters for the .40 S&W round. Mathematical predictive models produced

NEWS

Cleveland Adopts 25 Out of 26 PERF Use-of-Force Recommendations

Findings from the Police Executive Research Forum (PERF) review indicate Cleveland Division of Police (CDP) use-of-force protocols are sound and on par with national standards, the police department reports.

In August, Chief Michael McGrath presented the Final Report from PERF regarding the CDP use-of-force policies and training, as well as the reporting of, and investigations of, use-of-force incidents.

CDP has integrated all 26 of PERF's recommendations for policy change into the appropriate General Police Orders with one exception:

• GPD 2.1.06, TASER® – Electronic Control Device – Limiting the use of an ECW (Electronic Control Weapon) in stun drive mode only to supplement the probe mode to complete the incapacitation circuit, or as a countermeasure to gain separation between officers and the subject so that officers can consider another force option.

To read the *Use-of-Force Policy and Practices Study for Cleveland Division of Police*, go to **http://tinyurl.com/q2vg3cu**.

PERF's study came at the request of McGrath in March of 2011 and was conducted in two phases. The study is the fourth review and update of use-of-force policies by McGrath and his command staff since 2006. These ongoing efforts are designed to improve police officer tactics, training, and investigations, particularly regarding the use of force. Statistics show that, since 2006, use-of-force incidents by Cleveland police have been declining.

THE ALTERNATIVE™ is installed without taking one's eyes or weapon off the target.

an Abbreviated Injury Scale (AIS) range of 2.0 to 2.3. AIS Level 2 injuries are very likely to incapacitate an individual and may require medical treatment, but with a low probability of a lethal result.

Because of the slug's greater mass, spherical shape and reduced velocity, the projectile will impact the threat with less kinetic energy. This means less potential for serious injury or death.

This less-lethal system is a fraction of the cost of most less-lethal options. Components require no maintenance or replacement due to deterioration, spoilage or loss of potency

THE ALTERNATIVE requires minimum training. Alternative Ballistics has a two day teach back program at the instructor level. Once an agency is certified, the instructor can easily incorporate training into his (or her) agency's regular firearms training program.

About the Author: Bill Siuru is a retired USAF colonel. He has a Ph.D. in mechanical engineering from Arizona State University. His military assignments included teaching engineering at West Point, commander of the research laboratory at the U.S. Air Force Academy and Director of Engineering at Wright-Patterson AFB. For the past 35 years, he has been writing about automotive, aviation and technology subjects.

For more information, contact:
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Circle 6079 for More Information

Bill Siuru, Ph.D., PE

SWAT-Bot

SWAT-Bot is the world's first mid-sized robot designed solely for SWAT applications. It serves as a robotic ballistic shield, door breacher and debris remover.

When faced with dangerous situations like an active shooter, SWAT teams will typically use handheld shields when storming a building. Or, they may take protection behind an armored vehicle as they move in. The SWAT-Bot offers another option which essentially combines the benefits of handheld shields and an armored vehicle.

This SWAT Robot was developed in cooperation with the Massachusetts State Police by Howe and Howe Technologies Inc., a leading manufacturer of extreme vehicles and robotic platforms. The RBS-1 (Robotic Ballistic Shield-1) SWAT-Bot is based on technology found on the company's unmanned tanks used by the U.S. Army and its remote controlled fire fighting robots. The company says the SWAT-Bot is the world's first mid-sized robot designed solely for SWAT/SERT applications.

A ballistic police shield sits atop a miniature, remote controlled, tank-like vehicle.

No Lightweight

The 2,290 pound SWAT-Bot is collapsible for easy transport. When collapsed, it is 72 inches long, 41 inches wide and 47 inches high. When fully extended, the dimensions are 72 inches long by 97 inches wide by 80 inches high. It is constructed of high quality steel and aircraft-grade aluminum.

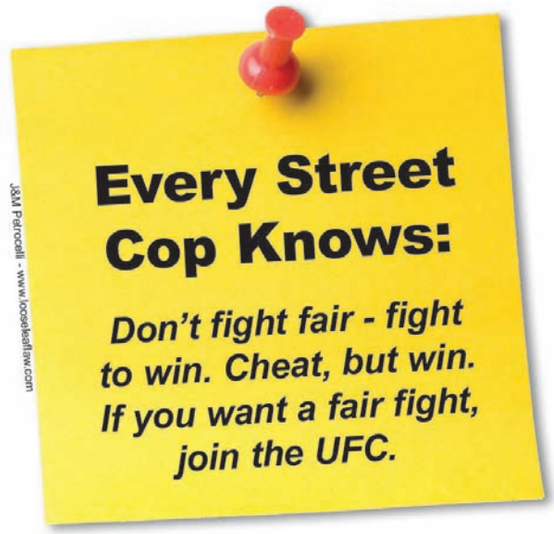
Powered by a 25 horsepower diesel engine, it has tracks rather than wheels and is designed to traverse the most rugged of terrain. It has a draw bar pull of 1,270 pounds on asphalt and 1,040 pounds on polished concrete.

Besides keeping SWAT teams and other first responders safe in standoffs, and when confronting armed suspects, it can shield police and the public from explosive devices. It also serves as a door breacher with a door entry ram and vehicle/debris remover. It has a 5,000 pound winch and an integrated Class III receiver.

Full robotic functions commence in only five seconds, significantly reducing response times. It features high-definition optics and each Robotic Ballistic Shield can be customized for specific applications. P&SN

Rear of the SWAT-Bot showing controls

About the Author: Bill Siuru is a retired USAF colonel. He has a Ph.D. in mechanical engineering from Arizona State University. His military assignments included teaching engineering at West Point, commander of the research laboratory at the U.S. Air Force Academy and Director of Engineering at Wright-Patterson AFB. For the past 35 years, he has been writing about automotive, aviation and technology subjects.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Circle 6082 for More Information

NEWS

DHS Continues Testing Facial Recognition Technology

The Department of Homeland Security Science and Technology Directorate (DHS S&T) Human Factors Division is using the Standoff Detection Test Bed to test and evaluate the Biometric Optical Surveillance System (BOSS). BOSS is a facial recognition technology which matches 3-D signatures from captured facial images with enrolled images stored in the system database. S&T is conducting a Privacy Impact Assessment to address privacy concerns raised by testing the facial recognition technology.

BOSS is capable of capturing images of an individual at 50 to100 meters. The system can capture images of subjects participating from a specific distance, or be set up to track and passively capture frontal face images of an individual as he/she moves in front of the camera.

During the testing and evaluation activities, Pacific Northwest National Laboratory (PNNL) and other university researchers capture the facial images of volunteer test subjects in a number of different scenarios according to the test plan.

PNNL is working with a 6,000 seat venue (the Toyota Center in Kennewick, WA) to serve as a long-term test bed for the project.

Although the system is not ready for use, researchers in August told the New York Times they are making significant advances (**http://tinyurl.com/mkmll8m**).

To read more information about BOSS, a PDF can be downloaded by going to (**http://tinyurl.com/n7zemum**).

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Circle **6083** for More Information

In Search of Intelligent Life

James L. McClinton, Ph.D

"DROP-INS" ARE NEVER WELCOME AT ROSES, ESPECIALLY IN THE MIDDLE OF THE DAY!...

A 47-year-old man was charged with a roof entry burglary of a Roses Department Store in Lexington, Kentucky. Burglaries like this one are common, but they are almost always nighttime jobs, occurring when no one else is on the premises. But, this guy decided to drop in just after lunchtime. Police swarmed the store and the burglar eventually fell through a drop ceiling and was arrested. *(If this criminal mastermind intended to "burgle" the store in the middle of the day, the front door might have been a little more convenient for him!)*

How to make a five hour flight seem like forever!... An air passenger was kicked off a flight for repeatedly singing Whitney Houston's, "I Will Always Love You." The American Airlines flight from Los Angeles to New York was diverted to Kansas City so marshals could remove the woman from the plane because she kept singing the song. She started singing shortly after the flight took off, but, halfway through the flight, her fellow passengers couldn't tolerate it any longer. The woman was escorted from the plane, in handcuffs, still belting out the 1992 number one hit, but was later released without charge. She had to make her own arrangements for the rest of her journey, as the airline would not let her board another flight. *(The fact that she was staring into a mirror as she sang didn't help matters.)*

He was denied his usual milk and cookie break and immediately remanded into the custody of Big Bird to await his afternoon nap!... Law enforcement in Lapeer, Michigan, had an unusual run in with a six-year-old who had taken his dad's car to go pick up some Chinese food. Concerned witnesses called the cops to report a car which was driving erratically. A sergeant with the Lapeer County Sheriff's Department said, "They told police when they called that it looked like a six-year-old was driving the car. And, they were exactly right." Police responded, but not before other drivers boxed in the young Chinese food enthusiast with their own cars. The boy told police that he had taken the keys from the counter and that he had never driven a car before. The boy also told police that he had hit a street sign near his home. After seeing the damage, he figured he needed to drive to the car dealer for repairs. It was unclear if the boy was planning on eating first. The police spoke to the boy's father who was asleep at the time. "He didn't even know [his son] was gone," police said. *(Ah, what a shame – Dad should probably give up any hopes he had for being nominated for "Father of the Year"!)*

How about a class which teaches folks how to manufacture methamphetamine to assist those who "accidentally" run out? In Oakland, California, the city government has initiated a series of helpful civic classes for its residents. One of those classes taught the students how to pick locks (supposedly to assist people who had accidentally locked themselves out of their homes). The city even offered lock picking kits for sale after class. Some residents were shocked, as the city had seen burglaries increase by 40 percent in 2012. One complainer asked, "What's next, 'the fundamentals of armed robbery?' " The city mayor recently decided it would be best if she apologized and canceled the class. *(I wonder if she made her profound decision after someone broke into her home.)*

This officer just might need the services of a "junior lawyer" if the department decides to discipline him!... In Las Vegas, a 12-year-old boy spotted a Las Vegas Metro police motorcycle parked illegally on the sidewalk near a gas station and recorded a video which has since gone viral, racking up more than 3.4 million views. As the police officer exits the gas station convenience store with a large soda, the young lad politely asks him if there was a reason, like an emergency in the area, which necessitated parking his motorcycle on a sidewalk. The officer's response was, "Because I can." The boy then courteously requests, "Can I see your badge number?" Jeremy repeatedly is turned down and then asked by the police officer if he is a "junior lawyer," asked for his ID and accused of loitering. Eventually, the officer rides off. The video has sparked debate from commenters with some applauding the boy's conviction and others saying he was just being an annoying kid. *(I'm voting for "annoying kid.")*

Officials quickly corrected the problem and enrolled him in a safer class – "Improvised Weapons and Explosive Devices 101"!... A 21-year-old imprisoned British computer hacker, serving time for computer fraud, hacked into the mainframe of his London prison after officials allowed him to take a computer class. Like most prisons, the Isis facility attempts to rehabilitate inmates with classes to inspire new careers, but apparently no one made the connection between the class and the inmate's crime. One prison staff member involved in the class was fired. *(Computer classes for inmates? Whatever happened to rehabilitating inmates by teaching them how to manufacture license plates?)*

Do you think the withholdings cited on the W-2 forms alerted the Feds?... While investigating alleged counterfeit Post Office checks, federal investigators discovered some problems with the payroll at a tire shop in Detroit, Michigan. Federal documents revealed that one of the problems was the fact that shop employees were allegedly being paid with crack cocaine instead of money. Neighbors, including those living in the senior center across the street, are hoping the bust is the beginning of efforts to bring back the neighborhood. Federal prosecutors, however, said they will not be filing drug charges against the owner. The evidence was better in the counterfeit check case and plan to focus on federal counterfeiting charges which carry stiffer penalties. *(Sorry to be the bearer of bad news, but the tire shop employees probably won't benefit much from any 401[k] plans they thought they had.)*

New Technology

Exelis Night Enforcer PVS-14 Binocular Kit

Utilizing two NEPVS-14s, Morovision has created a collimated binocular kit which is the first of its kind. Unlike any other night vision goggle, both units of the **NEPVS-14 Binocular** use their own intensifier tube and power supply. This drastically boosts both tube life and battery life, ultimately preventing the operator from losing night vision capabilities in SHTF scenarios.

Adding to the versatility of the **NEPVS-14 Binocular** is the capability and ease of quickly transitioning from binocular to monocular. Each side of the binocular is equipped with a "break-away" button which allows the unit to be split into two separate PVS-14s. Once separated, the individual PVS-14 acts as a force multiplier by being able to mount to a weapon or given to another team member.

Circle 6090 for More Information

New App for Message Signs

All Traffic Solutions has announced its user-friendly **DriveTimes app** which extends the capability of its cloud-based traffic management solution and allows the display of travel times for custom routes to be updated constantly on any of its variable message signs (purchased since October 2010) without the need for a fixed speed sensing infrastructure. **DriveTimes** embeds specialized traffic data from TomTom™ within All Traffic Solutions' connected product platform to reduce the complexity and cost for customers to design and maintain an advanced message system.

Circle 6091 for More Information

New Line of Weapons Cases

The **Cloak & Dagger™ Series** of concealment cases for law enforcement and tactical operations from TKL Tactical® is available for most firearms, including pistols, revolvers, rifles, and shotguns. All **Cloak & Dagger Series Concealment Cases** come with the TKL Outdoors® 24/7 Protection® in a wide variety of cases in these styles: Guitar, Banjo, Viola, and Trombone. This line is available in the following types: hard shell; Pro-Form® or Vectra® Molded series; Diamond Black® Carbon Fiber and Zero-Gravity cases.

Circle 6092 for More Information

New Patrol Boat for Law Enforcement

The **Freedom 21CC**, by Silver Ships, Inc., is built with marine-grade aluminum and has the ability to work in shallow or open water; is powered by a single outboard; and was purpose-built to be operated by a single officer. This 21 foot patrol boat has a solid foam fendering system with side entry ports, dry storage, and a dedicated firearms locker. The console accepts common navigational systems as well as department specific electronics.

Circle 6093 for More Information

New AR-15 Catalog

With a majority of its AR-15 parts and accessories in stock and ready to ship, Brownells announces that **AR-15 Catalog #9** has been released, packed with more than 2,600 of the newest and best-selling optics, accessories, magazines and other items. The final pages of the **catalog** are dedicated to their newest product category – emergency and survival gear. This section includes readiness bags, two-way radios, flashlights and other gear.

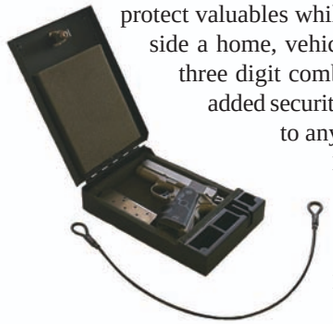
Circle 6094 for More Information

New Winter Shirt

From TRU-SPEC® by Atlanco comes the **1/4 Zip Winter Combat Shirt** with a 1/4 zip collar and a zipper cover hood for comfort. Designed with Tactical Response Uniform® sleeves which are lined with grid fleece and reinforced elbows, the body is Performance Plus 93% polyester and 7% spandex grid fleece. The **shirt** features Microban® for its antimicrobial properties and odor defense.

Circle 6095 for More Information

New Lockbox



Weighing less than three pounds, the lockable **welded steel storage box**, from Tuffy Security Products, can be used to secure a firearm and protect valuables while carrying it by hand; while traveling; or inside a home, vehicle or office. Keyless entry is provided by a three digit combination lock with a two-point steel cam for added security. A steel cable (included) secures the **lockbox** to any sturdy mounting surface by attaching to the 1/8" steel security cable anchor point. The inside is lined with foam, while compression bumpers keep the lid vibration-free. The overall exterior dimensions are 9 3/4" x 6 1/2" x 1 4/5" (2.5" high including the combo lock).

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